



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Title Page
Facility I.D.#: 800373
Revision #: 4
Date: November 17, 2000

FACILITY PERMIT TO OPERATE

CENCO REFINING COMPANY
12345 LAKELAND RD
SANTA FE SPRINGS, CA 90670

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: CENCO REFINING COMPANY

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 12345 LAKELAND RD
SANTA FE SPRINGS, CA 90670-3857

MAILING ADDRESS: 12345 LAKELAND RD
SANTA FE SPRINGS, CA 90670

RESPONSIBLE OFFICIAL: GEOFFREY S. SOARES

TITLE: PRESIDENT

TELEPHONE NUMBER: (562) 944-6111

CONTACT PERSON: JUNE CHRISTMAN

TITLE: MANAGER - ENVIRONMENTAL ENGINEERING

TELEPHONE NUMBER: (562) 944-6111

TITLE V		RECLAIM	
YES /		NOx:	YES
		SOx:	YES
		CYCLE:	1
		ZONE:	COASTAL



AQMD

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NO_x RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NO_x emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NO _x RTC Initially Allocated	NO _x RTC ¹ Holding as of 11/17/00 (pounds)	Non-Tradable ² Credits (NTCs) (pounds)
Begin	End				
(month/year)					
1/2000	12/2000	Coastal	0	0	
1/2001	12/2001	Coastal	0	0	
1/2002	12/2002	Coastal	0	0	
1/2003	12/2003	Coastal	0	0	
1/2004	12/2004	Coastal	0	0	
1/2005	12/2005	Coastal	0	0	
1/2006	12/2006	Coastal	0	0	
1/2007	12/2007	Coastal	0	0	
1/2008	12/2008	Coastal	0	0	
1/2009	12/2009	Coastal	0	0	
1/2010	12/2010	Coastal	0	0	

Footnotes:

- Changes to this figure due to trades, sales, or purchases of RTCs are not shown but current total RTC information can be obtained from the District's RTC Listing.
- The use of such credits is subject to restrictions set forth in paragraph (h)(2) of Rule 2002.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of SO_x RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total SO_x emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	SO _x RTC Initially Allocated	SO _x RTC ¹ Holding as of 11/17/00 (pounds)	Non-Tradable ² Credits (NTCs) (pounds)
Begin (month/year)	End (month/year)				
1/2000	12/2000	Coastal	0	0	
1/2001	12/2001	Coastal	0	0	
1/2002	12/2002	Coastal	0	0	
1/2003	12/2003	Coastal	0	0	
1/2004	12/2004	Coastal	0	0	
1/2005	12/2005	Coastal	0	0	
1/2006	12/2006	Coastal	0	0	
1/2007	12/2007	Coastal	0	0	
1/2008	12/2008	Coastal	0	0	
1/2009	12/2009	Coastal	0	0	
1/2010	12/2010	Coastal	0	0	

Footnotes:

1. Changes to this figure due to trades, sales, or purchases of RTCs are not shown but current total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (h)(2) of Rule 2002.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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Section C Page 1
Facility I.D.#: 800373
Revision #: 2
Date: November 17, 2000

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
System 1 : ATMOSPHERIC DISTILLATION UNIT "A"					S15-2
KNOCK OUT POT, CV-100, PREFLASH OFF-GAS, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 348224	D1				
TOWER, CV-101, DIAMETER: 7 FT; HEIGHT: 61 FT A/N: 348224	D2				
FRACTIONATOR, CV-102A, DIAMETER: 7 FT; HEIGHT: 73 FT 8 IN A/N: 348224	D3				
ACCUMULATOR, CV-102B, PREFLASH TOWER REFLUX, DIAMETER: 7 FT; HEIGHT: 12 FT A/N: 348224	D4				
VESSEL, STABILIZER, CV-103A, DIAMETER: 3 FT; HEIGHT: 57 FT A/N: 348224	D5				
ACCUMULATOR, CV-103B, FRACTIONATION TOWER OVERHEAD, DIAMETER: 5 FT; HEIGHT: 14 FT A/N: 348224	D6				
COLUMN, STRIPPER, STOVE OIL, CV-104B, DIAMETER: 4 FT; HEIGHT: 40 FT A/N: 348224	D8				
COLUMN, SPLITTER, DIESEL OIL, CV-105, DIAMETER: 4 FT; HEIGHT: 20 FT A/N: 348224	D9				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
ACCUMULATOR, CV-108, STABILIZER OVERHEAD, DIAMETER: 6 IN; HEIGHT: 8 FT A/N: 348224	D12				
VESSEL, DESALTER, CV-201 A/N: 348224	D15				
System 2 : ATMOSPHERIC DISTILLATION UNIT "A" HEATERS					
HEATER, CH-300, ATMOSPHERIC TOWER FEED PREHEATER, REFINERY GAS, 52 MMBTU/HR WITH A/N: BURNER, REFINERY GAS, 52 MMBTU/HR	D36	S876	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.14 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1
STACK, DIAMETER: 7 FT; HEIGHT: 101 FT A/N: 348228	S876	D36			
System 3 : ATMOSPHERIC DISTILLATION UNIT "B"					S15-2
FRACTIONATOR, CB-V1, CRUDE OIL, DIAMETER: 8 FT; HEIGHT: 75 FT A/N: 348614	D37				
COLUMN, STRIPPER, STOVE OIL, CB-V2, DIAMETER: 3 FT 6 IN; HEIGHT: 19 FT 6 IN A/N: 348614	D38				

- | | |
|--|---|
| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) |
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
COLUMN, STRIPPER, DIESEL , CB-V3, DIAMETER: 3 FT 6 IN; HEIGHT: 16 FT A/N: 348614	D39				
ACCUMULATOR, CB-V-4, CRUDE REFLUX, DIAMETER: 5 FT 6 IN; HEIGHT: 12 FT A/N: 348614	D40				
VESSEL, DESALTER, CB-V-5, DIAMETER: 11 FT; HEIGHT: 36 FT 2 IN A/N: 348614	D41				
COLUMN, STABILIZER, CB-V-6, DIAMETER: 3 FT; HEIGHT: 38 FT 6 IN A/N: 348614	D42				
ACCUMULATOR, CB-V-7, STABILIZER REFLUX A/N: 348614	D43				
ACCUMULATOR, CV-107, SPLITTER OVERHEAD, DIAMETER: 2 FT; HEIGHT: 10 FT A/N: 348614	D44				
System 4 : ATMOSPHERIC DISTILLATION UNIT "B" HEATERS					
HEATER, CB-H-01, REFINERY GAS, 46 MMBTU/HR WITH A/N:	D60	S878	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.169 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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Process 1 : CRUDE DISTILLATION					
BURNER, REFINERY GAS, JOHN-ZINK, WITH LOW NOX BURNER, 10 TOTAL; 46 MMBTU/HR					
STACK, DIAMETER: 5 FT; HEIGHT: 66 FT A/N: 348231	S878	D60			
HEATER, CB-H-02, REFINERY GAS, 46 MMBTU/HR WITH A/N: BURNER, REFINERY GAS, JOHN-ZINK, WITH LOW NOX BURNER, 10 TOTAL; 46 MMBTU/HR	D61	S879	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.167 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1
STACK, DIAMETER: 5 FT; HEIGHT: 66 FT A/N: 348230	S879	D61			
HEATER, C-H-100, REFINERY GAS, 47.5 MMBTU/HR A/N:	D743	S877	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.131 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1
STACK, DIAMETER: 5 FT; HEIGHT: 102 FT A/N: 348226	S877	D743			

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(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
System 5 : VACUUM DISTILLATION					S15-2
FRACTIONATOR, VACUUM, V-V1,, DIAMETER: 16 FT; HEIGHT: 93 FT 6 IN A/N: 348222	D62				
KNOCK OUT POT, V-V3, COMPRESSOR OFF-GAS , DIAMETER: 1 FT 6 IN; HEIGHT: 4 FT A/N: 348222	D63				
COMPRESSOR, OFF GAS, V-C-1, 19.5 HP MOTOR A/N: 348222	D930				
System 6 : VACUUM DISTILLATION HEATERS					
HEATER, VACUUM HEATER NO. 1, V-H-1, REFINERY GAS, 65 MMBTU/HR WITH A/N: BURNER, REFINERY GAS, JOHN- ZINK, WITH LOW NOX BURNER, 8 TOTAL; 65 MMBTU/HR	D69	S880	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.115 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1
STACK, DIAMETER: 6 FT 3 IN; HEIGHT: 150 FT A/N: 348220	S880	D69			

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
HEATER, VACUUM HEATER NO. 2, V-H-2, REFINERY GAS, 49 MMBTU/HR WITH A/N: BURNER, REFINERY GAS, JOHN- ZINK, WITH LOW NOX BURNER, 8 TOTAL; 49 MMBTU/HR	D70	S881	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.126 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 313-3, 315-1
STACK, DIAMETER: 4 FT 7 IN; HEIGHT: 150 FT A/N: 348221	S881	D70			
Process 2 : COKING AND RESIDUAL CONDITIONING					
System 1 : DELAYED COKING					S15-2
DRUM, NO. 1, DC-V-1, COKE, DIAMETER: 21 FT 6 IN; HEIGHT: 58 FT A/N: 348377	D71				
DRUM, NO. 2, DC-V-2, COKE, DIAMETER: 21 FT 6 IN; HEIGHT: 58 FT A/N: 348377	D72				
FRACTIONATOR, COKER, DC-V-3, DIAMETER: 6 FT; HEIGHT: 68 FT A/N: 348377	D73				
ACCUMULATOR, DC-V-4, COKER OVERHEAD, DIAMETER: 4 FT 6 IN; HEIGHT: 16 FT A/N: 348377	D74				

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(3B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					
COLUMN, STRIPPER, LGO, DC-V-5, DIAMETER: 2 FT 6 IN; HEIGHT: 22 FT A/N: 348377	D75				
ABSORBER, PENTANE, DC-V-6, DIAMETER: 2 FT 6 IN; HEIGHT: 16 FT A/N: 348377	D76				
DRUM, COMPRESSOR SUCTION, DC- V-7, DIAMETER: 2 FT 6 IN; HEIGHT: 5 FT A/N: 348377	D77				
DRUM, RECONTACTING, DC-V-8, DIAMETER: 4 FT 6 IN; HEIGHT: 16 FT A/N: 348377	D78				
DRUM, DC-V-9, COKE RUNDOWN, DIAMETER: 4 FT 6 IN; HEIGHT: 10 FT A/N: 348377	D79				
TOWER, COKER QUENCH, DC-V-10, DIAMETER: 7 FT; HEIGHT: 29 FT A/N: 348377	D80				
ACCUMULATOR, DC-V-11, QUENCH TOWER OVERHEAD, DIAMETER: 4 FT 6 IN; HEIGHT: 16 FT A/N: 348377	D81				
STORAGE TANK, CLARIFIED WATER, DC-TK-1 A/N: 348377	D741				
STORAGE TANK, FIXED ROOF, SLUDGE TANK, DC-TK-2, WITH A 3 HP MIXER, 6300 GALS; DIAMETER: 9 FT 6 IN; HEIGHT: 12 FT A/N: 348377	D742				

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					
COMPRESSOR, COKER GAS, DC-C-1A, 400 HP MOTOR A/N: 348377	D931				
COMPRESSOR, COKER GAS, DC-C-1B, 400 HP MOTOR A/N: 348377	D932				
System 2 : DELAYED COKING HEATERS					
HEATER, COKER CHARGE, DC-H-1A, REFINERY GAS, 27 MMBTU/HR WITH A/N: 362895 BURNER, REFINERY GAS, AUS- COMBUSTION , WITH LOW NOX BURNER, 7 TOTAL; 27 MMBTU/HR	D93	S857	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313- 4, 315-2
STACK, DIAMETER: 3 FT 3 IN; HEIGHT: 105 FT A/N: 362895	S857	D93			
HEATER, COKER CHARGE, DC-H-1B, REFINERY GAS, 27 MMBTU/HR WITH A/N: 348358	D94	S858	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313- 4, 315-2

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(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					
BURNER, REFINERY GAS, AUS-COMBUSTION, WITH LOW NOX BURNER, 7 TOTAL; 27 MMBTU/HR					
STACK, DIAMETER: 3 FT 3 IN; HEIGHT: 105 FT A/N: 348358	S858	D94			
System 3 : COKE HANDLING					
CRUSHER, COKE SLURRY A/N: 362896	D95				
CLARIFIER, DCH-ME-1, WATER, 70 FT; 12 FT A/N: 362896	D96				
TANK, SURGE, DCH-ME-4-V-1, COKE SLURRY, 16 FT; 20 FT A/N: 362896	D97				
CENTRIFUGE, SOLID BOWL, DCH-ME-12 A/N: 362896	D98				
CLARIFIER, SURGE, DCH-TK-1, 10 FT; 14.25 FT A/N: 362896	D99				
CONVEYOR, DCH-CV-1A, COKE A/N: 362896	D100				
CONVEYOR, DCH-CV-1B, COKE A/N: 362896	D101				
CONVEYOR, DCS-CV-1, RECLAIM COKE A/N: 362896	D102				

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|--|--|
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Process 2 : COKING AND RESIDUAL CONDITIONING					
CONVEYOR, LOADOUT, DCS-CV-2 A/N: 362896	D103				
STORAGE SILO, WET COKE BARN, LENGTH: 450 FT; WIDTH: 100 FT A/N: 362896	D104				136-1, 137-1
Process 3 : FCCU					
System 1 : FCCU					S15-2
VESSEL, RECEIVER, HIGH PRESSURE, F-V3, DIAMETER: 4 FT; HEIGHT: 10 FT 6 IN A/N: 348361	D105				
VESSEL, RECEIVER, HYDRAULIC SYSTEM, F-V4, DIAMETER: 4 FT; HEIGHT: 10 FT 6 IN A/N: 348361	D106				
REACTOR, F-V5, DIAMETER: 10 FT; HEIGHT: 43 FT A/N: 348361	D107				
REGENERATOR, F-V6, DIAMETER: 14 FT 8 IN; HEIGHT: 52 FT A/N: 348361	D108	D120 C122 C629	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 60.961 LBS/1000 BBLS (1); SOX: 82.287 LBS/1000 BBLS (1)	313-1, 315-1
VESSEL, REGENERATOR FLUE GAS ORIFICE CHAMBER, F-V14, DIAMETER: 3 FT 10 IN; LENGTH: 43 FT A/N: 348361	D109				
SETTLING TANK, F-V7, SLURRY, DIAMETER: 5 FT; HEIGHT: 10 FT A/N: 348361	D110				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FCCU					
COLUMN, FCC MAIN , F-V8, DIAMETER: 9 FT 6 IN; HEIGHT: 87 FT A/N: 348361	D111				
COLUMN, STRIPPER, LIGHT CYCLE OIL, F-V9, DIAMETER: 3 FT; HEIGHT: 18 FT A/N: 348361	D112				
COLUMN, STRIPPER, HEAVY CYCLE OIL, F-V10, DIAMETER: 3 FT; HEIGHT: 20 FT A/N: 348361	D113				
COLUMN, STRIPPER, MAIN CYCLE OIL , F-V11, DIAMETER: 3 FT; HEIGHT: 20 FT A/N: 348361	D114				
BOILER, F-H2, WASTE HEAT, REFINERY GAS, SUPPLEMENTARY FIRED, 66 MMBTU/HR WITH A/N: 348365 UREA INJECTION SYSTEM, NOXOUT PROCESS	C629	D108 C122	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.025 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1
BLOWER, (MAIN AIR), F-C-1, CENTRIFUGAL TYPE WITH LABYRINTH SEAL, STEAM TURBINE DRIVEN, COMMON TO CATALYST HANDLING SYSTEM A/N: 348361	D1000				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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AQMD

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FCCU					
System 2 : FCCU HEATERS					
HEATER, F-H-3, FCC FEED PREHEATER, REFINERY GAS, WITH LOW NOX BURNER, 17.15 MMBTU/HR WITH A/N: 348364 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 17.15 MMBTU/HR	D119	S859	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 3 FT 11 IN; HEIGHT: 100 FT A/N: 348364	S859	D119			
HEATER, F-H1, STARTUP AIR HEATER, DIRECT GAS FIRED; REFINERY GAS, 23 MMBTU/HR A/N: 348378	D120	D108	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 0.1 LBS/MMBTU REFINERY GAS (1); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1
System 3 : FCCU AIR POLLUTION CONTROL					
ELECTROSTATIC PRECIPITATOR, E- PR-1 A/N: 348615	C122	D108 C629 S942			
STACK A/N: 348615	S942	C122			
System 4 : FCC - GAS CONCENTRATION UNIT					S15-2
DRUM, COMPRESSOR SUCTION, G- V1, DIAMETER: 4 FT 6 IN; HEIGHT: 12 FT A/N: 348369	D123				

- | | |
|---|--|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|--|

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FCCU					
VESSEL, , HIGH PRESSURE RECEIVER , G-V3A, DIAMETER: 6 FT 6 IN; LENGTH: 22 FT A/N: 348369	D125				
COLUMN, STRIPPER, G-V6, DIAMETER: 4 FT 6 IN; HEIGHT: 73 FT A/N: 348369	D127				
COLUMN, DEBUTANIZER, G-V7, DIAMETER: 4 FT 6 IN; HEIGHT: 66 FT A/N: 348369	D128				
VESSEL, (DRIP LEG), G-V3B, HIGH PRESSURE RECEIVER, DIAMETER: 2 FT 6 IN; HEIGHT: 5 FT A/N: 348369	D982				
COMPRESSOR, G-C1, ROTARY TYPE, TWO STAGE, WITH MECHANICAL SEAL, STEAM TURBINE DRIVEN A/N: 348369	D1001				
System 5 : CATALYST HANDLING SYSTEM					
STORAGE SILO, F-V1, FRESH CATALYST, DIAMETER: 10 FT; HEIGHT: 40 FT A/N: 348366	D841				
STORAGE SILO, F-V2, SPENT CATALYST, DIAMETER: 12 FT; HEIGHT: 40 FT A/N: 348366	D1010				

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|--|--|
| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
System 1 : FCC FEED HYDROTREATER					S15-1, S15-2
REACTOR, FHT-R-1, DIAMETER: 7 FT 3 IN; HEIGHT: 43 FT A/N: 348309	D145				
TANK, SURGE, FHT-V-1, DIAMETER: 10 FT; HEIGHT: 22 FT 10 IN A/N: 348309	D146				
VESSEL, SEPARATOR, HIGH PRESSURE, FHT-V-3, DIAMETER: 6 FT; HEIGHT: 16 FT A/N: 348309	D147				
VESSEL, SEPARATOR, LOW PRESSURE, FHT-V-4, DIAMETER: 8 FT; HEIGHT: 16 FT A/N: 348309	D148				
ABSORBER, FHT-V-6, RECYCLE GAS H ₂ S, DIAMETER: 3 FT; HEIGHT: 42 FT A/N: 348309	D149				
COLUMN, PRODUCT STRIPPER, FHT- V-8, DIAMETER: 3 FT 6 IN; HEIGHT: 50 FT A/N: 348309	D150				
ACCUMULATOR, FHT-V-9, STRIPPER OVERHEAD, DIAMETER: 2 FT 6 IN; HEIGHT: 14 FT A/N: 348309	D151				
KNOCK OUT POT, FHT-V-10, DIAMETER: 3 FT 6 IN; HEIGHT: 10 FT A/N: 348309	D152				
KNOCK OUT POT, FHT-V-12 A/N: 348309	D153				

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
VESSEL, COALESCER, FHT-V-11, DIAMETER: 2 FT 6 IN; LENGTH: 10 FT A/N: 348309	D937				
COMPRESSOR, (RECY), FHT-C-1A / KHT-C-1A, 5-STAGE, 3500 HP (COMMON TO PROCESS 4, SYSTEMS 1 & 3) A/N: 348218	D973				
COMPRESSOR, (RECY - SP), FHT-C-1B / KHT-C-1B, 5-STAGE, 3500 HP (COMMON TO PROCESS 4, SYSTEMS 1 & 3) A/N: 348218	D974				
System 2 : FCC FEED HYDROTREATER HEATERS					
HEATER, FHT-H-1, HYDROTREATER CHARGE, REFINERY GAS, WITH LOW NOX BURNER, 12 MMBTU/HR WITH A/N: 348314 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 12 MMBTU/HR	D159	S860	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313- 4, 315-2
STACK, DIAMETER: 2 FT 3 IN; HEIGHT: 95 FT A/N: 348314	S860	D159			

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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AQMD

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Section D Page: 16
Facility I.D.: 800373
Revision #: 4
Date: November 17, 2000

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
System 3 : KEROSENE HYDROTREATER UNIT					S15-1, S15-2
REACTOR, KHT-R-1, DIAMETER: 4 FT 10 IN; HEIGHT: 19 FT 11 IN A/N: 348218	D160				
VESSEL, SEPARATOR, HIGH PRESSURE, KHT-V-2 A/N: 348218	D161				
COLUMN, STRIPPER, KHT-V-3, DIAMETER: 4 FT 6 IN; HEIGHT: 75 FT A/N: 348218	D162				
VESSEL, RECEIVER, KHT-V-4, STRIPPER OVERHEAD, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 348218	D163				
KNOCK OUT POT, COMPRESSOR K.O. DRUM, KHT-V-5 A/N: 348218	D164				
COMPRESSOR, (RECY), FHT-C-1A / KHT-C-1A, 5-STAGE, 3500 HP (COMMON TO PROCESS 4, SYSTEMS 1 & 3) A/N: 348218	D973				
COMPRESSOR, (RECY - SP), FHT-C-1B / KHT-C-1B, 5-STAGE, 3500 HP (COMMON TO PROCESS 4, SYSTEMS 1 & 3) A/N: 348218	D974				

- | | |
|---|--|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|--|

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
System 4 : KEROSENE HYDROTREATER UNIT HEATERS					
HEATER, KHT-H-1, REFINERY GAS, 10 MMBTU/HR WITH A/N: BURNER, REFINERY GAS, WITH LOW NOX BURNER, 10 MMBTU/HR	D169	S861	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5A); NOX: 125 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 3 FT; HEIGHT: 100 FT A/N: 348461	S861	D169			
HEATER, STRIPPER REBOILER, KHT- H-2, REFINERY GAS, 12 MMBTU/HR WITH A/N: BURNER, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 4 TOTAL; 12 MMBTU/HR	D170	S862	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5A); NOX: 125 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313- 4, 315-2

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
STACK, DIAMETER: 3 FT; HEIGHT: 100 FT A/N: 348219	S862	D170			
System 5 : UNIFINING UNIT					S15-1, S15-2
TANK, SURGE, H-V1, DIAMETER: 6 FT; LENGTH: 25 FT A/N: 348320	D171				
REACTOR, H-V2, DIAMETER: 5 FT; HEIGHT: 22 FT A/N: 348320	D172				
VESSEL, PRODUCT SEPARATOR, H-V3, DIAMETER: 6 FT; LENGTH: 22 FT A/N: 348320	D173				
COLUMN, STRIPPER, H-V4, DIAMETER: 6 FT; HEIGHT: 55 FT A/N: 348320	D174				
COLUMN, STRIPPER RECEIVER, H-V5, DIAMETER: 3 FT 6 IN; LENGTH: 13 FT A/N: 348320	D175				
COMPRESSOR, H-C1A, OFF-GAS RECYCLE A/N: 348320	D179				
COMPRESSOR, H-C1B, OFF-GAS RECYCLE A/N: 348320	D180				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
System 6 : UNIFINING UNIT HEATERS					
HEATER, H-H1, UNIFINER REACTOR, REFINERY GAS, 17.2 MMBTU/HR WITH A/N: 348327 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 17.2 MMBTU/HR	D181	S863	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 2 FT 9 IN; HEIGHT: 90 FT A/N: 348327	S863	D181			
HEATER, H-H2, STRIPPER REBOILER, REFINERY GAS, 17 MMBTU/HR WITH A/N: 348324 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 17 MMBTU/HR	D182	S864	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 3 FT 9 IN; HEIGHT: 90 FT A/N: 348324	S864	D182			

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
System 7 : DIESEL HYDRODESULFURIZATION (DHT) UNIT HEATERS					
HEATER, DHT-H-2, CHARGE, REFINERY GAS, 14.9 MMBTU/HR WITH A/N: 348459 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 14.9 MMBTU/HR	D183	S865	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 2 FT; HEIGHT: 52 FT A/N: 348459	S865	D183			
HEATER, DHT-H-3, RERUN COLUMN REBOILER, REFINERY GAS, 12.7 MMBTU/HR WITH A/N: 362897 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 12.7 MMBTU/HR	D184	S866	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 4 FT; HEIGHT: 48 FT A/N: 348458	S866	D184			

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See Section J for NESHAP/MACT requirements

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AQMD
AIR QUALITY MANAGEMENT DISTRICT

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Section D . Page: 21
Facility I.D.: 800373
Revision #: 4
Date: November 17, 2000

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
HEATER, DHT-H-4, RERUN COLUMN REBOILER, REFINERY GAS, 9.4 MMBTU/HR WITH A/N: 348456 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 9.4 MMBTU/HR	D185	S867	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 0.045 LBS/MMBTU REFINERY GAS (1); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 3 FT 3 IN; HEIGHT: 46 FT A/N: 348456	S867	D185			
System 8 : DIESEL HYDRODESULFURIZATION (DHT) UNIT					S4-1, S31-1, S15-10,
REACTOR, DHT-V-1, DIAMETER: 5 FT; HEIGHT: 34 FT A/N: 348453	D247				
VESSEL, SEPARATOR, HIGH PRESSURE, DHT-V-41, DIAMETER: 4 FT; HEIGHT: 18 FT A/N: 348454	D884				
REACTOR, DHT-V-2, DIAMETER: 5 FT; HEIGHT: 24 FT A/N: 348453	D248				
COLUMN, DEA CONTACTOR, DHT-V-40, DIAMETER: 2 FT; HEIGHT: 37 FT A/N: 348454	D885				

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See Section J for NESHAP/MACT requirements
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
VESSEL, SEPARATOR, LOW PRESSURE, DHT-V-45, DIAMETER: 7 FT; HEIGHT: 30 FT A/N: 348453	D249				
TANK, DEA DEGASSING, DHT-V-42, DIAMETER: 3 FT; HEIGHT: 9 FT 6 IN A/N: 348454	D887				
VESSEL, DEA TREATER, DHT-V-46, DIAMETER: 3 FT; HEIGHT: 35 FT 6 IN A/N: 348454	D890				
COLUMN, RERUN, DHT-V-11, DIAMETER: 5 FT; HEIGHT: 110 FT A/N: 348453	D255				
ACCUMULATOR, DHT-V-12, RERUN COLUMN OVERHEAD, DIAMETER: 5 FT; LENGTH: 18 FT A/N: 348453	D256				
TANK, WATER INJECTION, DHT-V-14, DIAMETER: 1 FT 6 IN; HEIGHT: 3 FT A/N: 348453	D257				
VESSEL, RECEIVER, DHT-V-17, SOUR GAS, DIAMETER: 4 FT; HEIGHT: 18 FT A/N: 348453	D260				
COMPRESSOR, DHT-C-2, OFF-GAS RERUN OVERHEAD COMPRESSOR, 250 HP, SINGLE STAGE WITH NITROGEN PURGE PACKING A/N: 348454	D899				

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| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
VESSEL, SEPARATOR, HIGH PRESSURE, DHT-V-51, DIAMETER: 2 FT; HEIGHT: 26 FT A/N: 348454	D900				
KNOCK OUT POT, FLARE, DHT-V-24, DIAMETER: 4 FT; HEIGHT: 18 FT A/N: 348453	D264				
KNOCK OUT POT, FLARE, DHT-V-32, DIAMETER: 3 FT; HEIGHT: 8 FT A/N: 348453	D266				
COMPRESSOR, LX-C-1, 1200 H.P. A/N: 348453	D267				
VESSEL, SEPARATOR, HIGH PRESSURE, DHT-V-52, DIAMETER: 2 FT; HEIGHT: 6 FT A/N: 348453	D915				
COMPRESSOR, (VACUUM UNIT OFF-GAS) DHT-VC-2, RECIPROCATING TYPE, WITH PACKING GLANDS AND A 40 HP MOTOR A/N: 348453	D1002				
Process 5 : CATALYTIC REFORMING					
System 1 : NO. 2 PLATFORMER UNIT					S15-2
REACTOR, NO. 1, 2P-V1, DIAMETER: 3 FT; HEIGHT: 10 FT 6 IN A/N: 348359	D186				
REACTOR, NO. 2, 2P-V2, DIAMETER: 4 FT; HEIGHT: 10 FT A/N: 348359	D187				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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Process 5 : CATALYTIC REFORMING					
REACTOR, NO. 3, P-V3, DIAMETER: 4 FT 6 IN; HEIGHT: 10 FT A/N: 348359	D188				
VESSEL, RECYCLE DRYER, 2P-V4, DIAMETER: 2 FT 6 IN; HEIGHT: 41 FT A/N: 348359	D189				
VESSEL, SEPARATOR, PRODUCT, 2P-V5, DIAMETER: 4 FT; LENGTH: 10 FT A/N: 348359	D190				
DRUM, COMPRESSOR SUCTION, 2P-V6, DIAMETER: 4 FT; HEIGHT: 10 FT A/N: 348359	D191				
COLUMN, STABILIZER, 2P-V7, DIAMETER: 3 FT; HEIGHT: 58 FT A/N: 348359	D192				
VESSEL, RECEIVER, 2P-V8, STABILIZER OVERHEAD, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 348359	D193				
KNOCK OUT POT, COMPRESSOR SUCTION, 2P-V10 A/N: 348359	D194				
KNOCK OUT POT, COMPRESSOR DISCHARGE, 2P-V11 A/N: 348359	D195				
TANK, CHEMICAL, 2P-V9, DIAMETER: 1 FT; LENGTH: 4 FT A/N: 348359	D938				

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(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					
COMPRESSOR, , RECYCLE GAS, 2P-C-1, WITH A 400 HP MOTOR AND SEALS VENTED TO FUEL GAS SYSTEM A/N: 348359	D994				
System 2 : NO. 2 PLATFORMER UNIT HEATERS					
HEATER, NO. 2 PLATFORMER FEED, 2-PH-1, REFINERY GAS, 35 MMBTU/HR WITH A/N: 348413 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 4 TOTAL; 35 MMBTU/HR	D200	S868	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 3 FT 9 IN; HEIGHT: 40 FT A/N: 348413	S868	D200			
System 3 : NO. 3 PLATFORMER UNIT					S15-2
REACTOR, NO. 1, 3PV-1, DIAMETER: 4 FT 6 IN; HEIGHT: 7 FT 6 IN A/N: 348250	D201				
REACTOR, NO. 2, 3PV-2, DIAMETER: 5 FT; HEIGHT: 8 FT 6 IN A/N: 348250	D202				
REACTOR, NO. 3, 3PV-3, DIAMETER: 3 FT 6 IN; HEIGHT: 9 FT 6 IN A/N: 348250	D203				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					
KNOCK OUT POT, 3PV-5, H2 A/N: 348250	D204				
VESSEL, PRODUCT SEPARATOR, 3PV-6, DIAMETER: 4 FT 6 IN; HEIGHT: 14 FT A/N: 348250	D205				
ACCUMULATOR, 3PV-7, STABILIZER OVERHEAD, DIAMETER: 3 FT 6 IN; HEIGHT: 10 FT A/N: 348250	D206				
COLUMN, STABILIZER, 3PV-8, DIAMETER: 4 FT 6 IN; HEIGHT: 58 FT A/N: 348250	D207				
KNOCK OUT POT, 3PV-12, FUEL GAS, DIAMETER: 2 FT; HEIGHT: 10 FT A/N: 348250	D210				
KNOCK OUT POT, WEST COMPRESSOR SUCTION, 3PV-13 A/N: 348250	D211				
KNOCK OUT POT, WEST COMPRESSOR DISCHARGE, 3PV-14 A/N: 348250	D212				
KNOCK OUT POT, EAST COMPRESSOR SUCTION, 3PV-15 A/N: 348250	D213				
KNOCK OUT POT, EAST COMPRESSOR DISCHARGE, 3PV-16 A/N: 348250	D214				

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|---|--|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					
COMPRESSOR, , RECYCLE GAS, 3P-C-1, WITH A 1200HP MOTOR AND SEALS VENTED TO FUEL GAS SYSTEM A/N: 348250	D992				
COMPRESSOR, , OFFGAS, 3P-C-2, WITH A 75 HP MOTOR A/N: 348250	D993				
System 4 : NO. 3 PLATFORMER UNIT HEATERS					
HEATER, NO. 3 PLATFORMER FEED, 3-PH-1, REFINERY GAS, 26.2 MMBTU/HR WITH A/N: 348257 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 4 TOTAL; 26.2 MMBTU/HR	D219	S940	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
HEATER, NO. 3 PLATFORMER FEED, 3-PH-2, REFINERY GAS, 21.6 MMBTU/HR WITH A/N: 348255 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 21.6 MMBTU/HR	D220	S940	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2

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| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					
HEATER, NO.3 PLATFORMER FEED, 3-PH-3, REFINERY GAS, 8.57 MMBTU/HR WITH A/N: 348253 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 3 TOTAL; 8.57 MMBTU/HR	D221	S940	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK A/N: 348257	S940	D219 D220 D221			
Process 6 : HYDROGEN PRODUCTION					
System 1 : HYDROGEN PLANT					S4-1, S15-6, S31-1
REACTOR, HYDROGENATING, HY-V- 28, DIAMETER: 4 FT 8 IN; HEIGHT: 8 FT 8 IN A/N: 348342	D222				
REACTOR, DESULFURIZER, HY-V-3A, ZINC OXIDE, DIAMETER: 4 FT 6 IN; HEIGHT: 9 FT A/N: 348342	D223				
REACTOR, DESULFURIZER, HY-V-3B, ZINC OXIDE, DIAMETER: 4 FT 6 IN; HEIGHT: 9 FT A/N: 348342	D224				
REACTOR, HIGH TEMPERATURE SHIFT CONVERTER, HY-V-5, DIAMETER: 8 FT; HEIGHT: 13 FT 6 IN A/N: 348342	D225				

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| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : HYDROGEN PRODUCTION					
REACTOR, HYDROCARBON-STEAM REFORMING, HY-H-1 (R) A/N: 348342	D1148				
REACTOR, LOW TEMPERATURE SHIFT CONVERTER, HY-V-6, LOW METHANOL CATALYST, DIAMETER: 8 FT; HEIGHT: 13 FT 6 IN A/N: 348342	D226				12-10
POT, BLOWDOWN, HY-V-8 A/N: 348342	D227				
VESSEL, DEAERATOR, HY-V-9, METHANOL, DIAMETER: 5 FT; HEIGHT: 23 FT A/N: 348342	D228				
ACCUMULATOR, HY-V-10, CARBON DIOXIDE STRIPPER OVERHEAD, DIAMETER: 5 FT; LENGTH: 12 FT A/N: 348342	D229				
COLUMN, STRIPPER, CARBON DIOXIDE, HY-V-11, DIAMETER: 6 FT 6 IN; HEIGHT: 141 FT A/N: 348342	D230				
KNOCK OUT POT, HY-V-12, CONDENSATE, DIAMETER: 4 FT 6 IN; LENGTH: 12 FT A/N: 348342	D231				
ABSORBER, CARBON DIOXIDE, HY-V-13, POTASSIUM CARBONATE ABSORBENT, DIAMETER: 6 FT 6 IN; HEIGHT: 100 FT A/N: 348342	D232				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : HYDROGEN PRODUCTION					
KNOCK OUT POT, HY-V-14, CARBON DIOXIDE ABSORBER OVERHEAD, DIAMETER: 2 FT; HEIGHT: 6 FT A/N: 348342	D233				
VESSEL, METHANATOR, HY-V-15, DIAMETER: 4 FT 6 IN; HEIGHT: 16 FT A/N: 348342	D234				
KNOCK OUT POT, HY-V-16, METHANATOR EFFLUENT, DIAMETER: 2 FT; HEIGHT: 6 FT A/N: 348342	D235				
TANK, ANTI-FOAM SOLUTION, HY-V-23, DIAMETER: 24 FT; HEIGHT: 2 FT 6 IN A/N: 348342	D236				
COMPRESSOR, , FEED GAS, HY-C-1A, RECIPROCATING TYPE, WITH A 250 HP MOTOR A/N: 348342	D996				
COMPRESSOR, (SPARE), FEED GAS, HY-C-1B, RECIPROCATING TYPE, WITH A 250 HP MOTOR A/N: 348342	D997				
System 2 : HYDROGEN PLANT HEATERS					
HEATER, REFORMER FURNACE, HY-H-1, REFINERY GAS, 150 MMBTU/HR WITH A/N: 348339	D246	C735 S883	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.018 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 313-3, 315-1

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 6 : HYDROGEN PRODUCTION					
BURNER, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 48 TOTAL; 150 MMBTU/HR					
SELECTIVE CATALYTIC REDUCTION, SERVING HEATER HY-H-1 WITH A/N: 348341 AMMONIA INJECTION	C735 C944	D246			
STACK, DIAMETER: 4 FT 9 IN; HEIGHT: 100 FT A/N: 348339	S883	D246			
Process 7 : HYDROCRACKING					
System 1 : HYDROCRACKER UNIT					S4-1, S7-1, S15-10, S31-1
REACTOR, (HYDROCRACKER) NO. 1, HC-R-1, 1860 PSIG, DIAMETER: 6 FT 6 IN; HEIGHT: 56 FT 7 IN A/N: 353349	D1011				
REACTOR, (HYDROCRACKER) NO. 2, HC-R-2, 1860 PSIG, DIAMETER: 6 FT 6 IN; HEIGHT: 56 FT 7 IN A/N: 353349	D1012				
VESSEL, (SEPARATOR), HC-V-3, HIGH PRESSURE, 1760 PSIG, DIAMETER: 6 FT 6 IN; HEIGHT: 20 FT A/N: 353349	D1013				

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 7 : HYDROCRACKING					
VESSEL, (SEPARATOR), HC-V-4, LOW PRESSURE, 1760 PSIG, DIAMETER: 6 FT 6 IN; HEIGHT: 18 FT A/N: 353349	D1014				
TOWER, (DEBUTANIZER), HC-V-5, TRAY TYPE, 185 PSIG, DIAMETER: 5 FT; HEIGHT: 87 FT A/N: 353349	D1015				
ACCUMULATOR, (DEBUTANIZER OVERHEAD), HC-V-6, DIAMETER: 6 FT; HEIGHT: 12 FT A/N: 353349	D1016				
FRACTIONATOR, HC-V-7, 50 PSIG, DIAMETER: 10 FT; HEIGHT: 145 FT A/N: 353349	D1017				
ACCUMULATOR, (FRACTIONATOR OVERHEAD), HC-V-8, DIAMETER: 7 FT 6 IN; HEIGHT: 15 FT A/N: 353349	D1018				
DRUM, (FEED SURGE), HC-V-9, DIAMETER: 8 FT; HEIGHT: 16 FT A/N: 353349	D1019				
TANK, (INJECTION WATER), HC-V-11, DIAMETER: 2 FT 6 IN; HEIGHT: 8 FT A/N: 353349	D1020				
DRUM, (SOUR WATER DEGASSING), HC-V-15, DIAMETER: 1 FT 6 IN; HEIGHT: 6 FT A/N: 353349	D1021				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 7 : HYDROCRACKING					
VESSEL, (NAPHTHA STRIPPER), HC-V-18, DIAMETER: 3 FT; HEIGHT: 26 FT A/N: 353349	D1022				
VESSEL, (KEROSIN STRIPPER), HC-V-19, DIAMETER: 3 FT; HEIGHT: 41 FT A/N: 353349	D1023				
VESSEL, (COLD FEED COALESCER), HC-V-20, DIAMETER: 30 FT; HEIGHT: 10 IN A/N: 353349	D1024				
EJECTOR, (VACUUM), HC-EJ-1 A/N: 353349	D1025				
COMPRESSOR, (HYDROGEN MAKE-UP/RECYCLE) HC-C-1A, 5-STAGE, 3500 HP, WITH MECHANICAL SEAL A/N: 353349	D1026				
COMPRESSOR, (HYDROGEN MAKE-UP/RECYCLE) HC-C-1B, 5-STAGE, 3500 HP, WITH MECHANICAL SEAL A/N: 353349	D1027				
POT, HC-V-17, CONDENSATE, DIAMETER: 1 FT 6 IN; HEIGHT: 4 FT A/N: 353349	D1028				
FILTER, (FEED), HC-F-1, DIAMETER: 2 FT 10 IN; HEIGHT: 7 FT 6 IN A/N: 353349	D1029				
COMPRESSOR, (HYDROCRACKER RECYCLE) HC-C-2, CENTRIFUGAL TYPE, 1750 HP A/N: 353349	D1030				

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| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 7 : HYDROCRACKING					
System 2 : HYDROCRACKER/DESUFURIZER UNIT HEATERS					
HEATER, FIRST STAGE H2 RECYLCLE, HC-H-1, REFINERY GAS, 22 MMBTU/HR WITH A/N: 348286 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 4 TOTAL; 22 MMBTU/HR	D274	S869	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313-4, 315-2
STACK, DIAMETER: 3 FT; HEIGHT: 101 FT A/N: 348286	S869	D274			
HEATER, DEBUTANIZER REBOILER, HC-H-2, REFINERY GAS, 20 MMBTU/HR WITH A/N: 348283 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 4 TOTAL; 20 MMBTU/HR	D275	S870	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313-4, 315-2
STACK, DIAMETER: 3 FT 6 IN; HEIGHT: 101 FT A/N: 348291	S870	D275			

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|---|--|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|--|
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 7 : HYDROCRACKING					
HEATER, SECOND STAGE RECYCLE, HC-H-3, REFINERY GAS, 24 MMBTU/HR WITH A/N: 348291 BURNER, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 6 TOTAL; 24 MMBTU/HR	D276	S871	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313- 4, 315-2
STACK, DIAMETER: 3 FT 9 IN; HEIGHT: 100 FT A/N: 348283	S871	D276			
HEATER, FRACTIONATOR REBOILER, HC-H4, REFINERY GAS, 49.5 MMBTU/HR WITH A/N: BURNER, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 49.5 MMBTU/HR	D277	S882	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.163 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 313-3, 315-1
STACK, DIAMETER: 5 FT; HEIGHT: 101 FT A/N: 348455	S882	D277			

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
System 1 : ALKYLATION UNIT					S4-1, S7-1, S15-12, S31-1, S34-1
REACTOR, FRESH FEED DRYER, A-V-1A, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 348349	D278				
REACTOR, FRESH FEED DRYER, A-V-1B, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 348349	D279				
VESSEL, BUTANE DRYER, A-V-2A, DIAMETER: 2 FT; HEIGHT: 8 FT A/N: 348349	D280				
VESSEL, BUTANE DRYER, A-V-2B, DIAMETER: 2 FT; HEIGHT: 8 FT A/N: 348349	D281				
DRUM, A-V-3, HF, DIAMETER: 10 FT; LENGTH: 40 FT A/N:	D282	D324			336-1
SETTLING TANK, A-V-4, ACID, DIAMETER: 7 FT 6 IN; HEIGHT: 47 FT A/N: 348349	D283				
COLUMN, ISO-STRIPPER, A-V-7, DIAMETER: 6 FT; HEIGHT: 125 FT A/N: 348349	D284				
VESSEL, RECEIVER, A-V-8, ISO-STRIPPER OVERHEAD, DIAMETER: 7 FT; LENGTH: 25 FT A/N: 348349	D285	D324			336-1

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
REGENERATOR, A-V-9, ACID, DIAMETER: 1 FT 6 IN; HEIGHT: 40 FT A/N: 348349	D286				
SETTLING TANK, A-V-10, DEPROPANIZER FEED, DIAMETER: 3 FT; LENGTH: 15 FT A/N: 348349	D287				
COLUMN, DEPROPANIZER, A-V-11, DIAMETER: 3 FT; HEIGHT: 74 FT A/N: 348349	D288				
VESSEL, RECEIVER, A-V-12, DEPROPANIZER OVERHEAD, DIAMETER: 4 FT; LENGTH: 12 FT A/N: 348349	D289	D324			336-1
VESSEL, A-V-13, DIAMETER: 2 FT 6 IN; HEIGHT: 40 FT A/N: 348349	D290				
COLUMN, TREATER, BUTANE KOH, A-V-14, DIAMETER: 2 FT; HEIGHT: 16 FT A/N: 348349	D291				
KNOCK OUT POT, A-V-15, PROPANE, DIAMETER: 2 FT; HEIGHT: 20 FT A/N: 348349	D292				
VESSEL, TREATER, PROPANE POTASSIUM HYDROXIDE, A-V-16A, DIAMETER: 1 FT 6 IN; HEIGHT: 16 FT A/N: 348349	D293				
DRUM, A-V-17, DIAMETER: 2 FT; HEIGHT: 8 FT A/N: 348349	D294				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
DRUM, , SURGE, A-V-18, REACTOR FRESH FEED, DIAMETER: 7 FT; LENGTH: 25 FT A/N: 348349	D295				
VESSEL, TREATER, PROPANE ACUMINA , A-V-19, DIAMETER: 6 FT; HEIGHT: 22 FT 7 IN A/N: 348349	D296				
VESSEL, TREATER, PROPANE POTASSIUM HYDROXIDE A-V-16B, DIAMETER: 3 FT; HEIGHT: 8 FT A/N: 348349	D297				
VESSEL, BUTANE EXTRACTOR, ME- V-101, DIAMETER: 2 FT 6 IN; HEIGHT: 43 FT A/N: 348349	D298				
COLUMN, BUTANE WATER WASH, ME-V-102, DIAMETER: 2 FT 6 IN; HEIGHT: 20 FT A/N: 348349	D299				
SETTLING TANK, ME-V-103, BUTANE, DIAMETER: 3 FT 6 IN; LENGTH: 20 FT A/N: 348349	D300				
ABSORBER, C3-C4 AMINE, ME-V-104, DIAMETER: 3 FT 6 IN; HEIGHT: 43 FT A/N: 348349	D301				
COLUMN, C3-C4 CAUSTIC WASH, ME-V-105, DIAMETER: 4 FT; HEIGHT: 20 FT A/N: 348349	D302				

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| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
VESSEL, EXTRACTOR, C3-C4 MEROX, ME-V-106, DIAMETER: 3 FT; HEIGHT: 43 FT A/N: 348349	D303				
VESSEL, C3-C4 WATER WASH, ME-V-107, DIAMETER: 4 FT; HEIGHT: 20 FT A/N: 348349	D304				
VESSEL, MEROX OXIDIZER, ME-V-108, DIAMETER: 2 FT; HEIGHT: 14 FT A/N: 348349	D305				
VESSEL, SEPARATOR, MEROX DISULFIDE, ME-V-109 A/N: 348349	D306				
POT, MEROX CATALYST ADDITION, ME-V-110, DIAMETER: 1 FT 6 IN; LENGTH: 3 FT A/N: 348349	D307				
VESSEL, BUTANE COALESCER, A-V-23, DIAMETER: 9 IN; LENGTH: 8 FT A/N: 348349	D308				
REACTOR, ALKYLATION, A-R-1, DIAMETER: 3 FT 6 IN; LENGTH: 35 FT A/N: 348349	D309				
VESSEL, FRESH FEED AND BUTANE DRYER, A-E-3 A/N: 348349	D311				
VESSEL, VAPORIZER, ISO-BUTANE, A-E-12 A/N: 348349	D318				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
SCRUBBER, A-V-5, RELIEF GAS, DIAMETER: 2 FT 6 IN; HEIGHT: 34 FT A/N:	D324	D282 D285 D289			
KNOCK OUT POT, A-V-20, HF, DIAMETER: 2 FT 6 IN; HEIGHT: 8 FT A/N: 348349	D325				
SUMP, WASHDOWN AND TURNAROUND, DEPTH: 15 FT; LENGTH: 8 FT; WIDTH: 4 FT A/N: 348349	D326	D493			
KNOCK OUT POT, A-V-21, FUEL GAS, DIAMETER: 2 FT; HEIGHT: 4 FT A/N: 348349	D327				
KNOCK OUT POT, FEED SURGE, A-V- 24, DIAMETER: 3 FT; HEIGHT: 4 FT 6 IN A/N: 348349	D328				
System 2 : ALKYLATION UNIT HEATERS					
HEATER, ISO-STRIPPER REBOILER, A-H-1, REFINERY GAS, 26 MMBTU/HR WITH A/N: 348350 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 26 MMBTU/HR	D329	S872	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
STACK, DIAMETER: 4 FT 3 IN; HEIGHT: 95 FT A/N: 348350	S872	D329			
Process 9 : TREATING/STRIPPING					
System 1 : AMINE GAS TREATING					S4-1, S15-2, S15-4, S31-1
VESSEL, H2 RICH GAS CONTACTOR, AM-V-1, DIAMETER: 2 FT; HEIGHT: 58 FT A/N: 362889	D368				
KNOCK OUT POT, AM-V-2, HYDROGEN RICH GAS, DIAMETER: 2 FT; HEIGHT: 8 FT A/N: 362889	D369				
VESSEL, FUEL GAS CONTACTOR, AM-V-3, DIAMETER: 3 FT; HEIGHT: 54 FT A/N: 362889	D370				
KNOCK OUT POT, AM-V-4, FUEL GAS, DIAMETER: 3 FT; HEIGHT: 8 FT A/N: 362889	D371				
TANK, FLASH, AM-V-5, RICH DGA, DIAMETER: 4 FT 6 IN; HEIGHT: 10 FT A/N: 362889	D372				
VESSEL, DGA STRIPPER, AM-V-6, DIAMETER: 3 FT 6 IN; HEIGHT: 59 FT A/N: 362889	D373				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
ACCUMULATOR, AM-V-7, DGA STRIPPER REFLUX, DIAMETER: 2 FT; HEIGHT: 6 FT 6 IN A/N: 362889	D374				
POT, AM-V-8, DGA STRIPPER, DIAMETER: 2 FT 6 IN; HEIGHT: 4 FT A/N: 362889	D375				
KNOCK OUT POT, AM-V-9 A/N: 362889	D376				
TANK, , KNOCKOUT POT, AM-V-10, RICH DGA, DIAMETER: 5 FT 6 IN; HEIGHT: 12 FT 6 IN A/N: 362889	D377				
VESSEL, AMINE CONTACTOR, AM-V-13 A/N: 362889	D378				
REGENERATOR, AMINE, AM-V-16 A/N: 362889	D380				
ACCUMULATOR, AM-V-17, AMINE REGENERATOR OVERHEAD A/N: 362889	D381				
STORAGE TANK, AM-TK-1, DGA, 175 BBL A/N: 362889	D388				
FILTER, (AM-V-1 FEED COALESCER), AM-SE-1, SOUR H2, DIAMETER: 1 FT 6 IN; HEIGHT: 9 FT 6 IN A/N: 362889	D983				

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| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
FILTER, (AM-V-3 FEED COALESCER), AM-SE-2, RICH GAS, DIAMETER: 2 FT; HEIGHT: 9 FT 6 IN A/N: 362889	D984				
FILTER, AM-F-1, LEAN DGA A/N: 362889	D985				
FILTER, AM-F-2, MAKE-UP DGA A/N: 362889	D986				
FILTER, (CARBON), AM-F-3, DGA RECLM A/N: 362889	D987				
FILTER, (BACKFLUSH), AM-F-11, LEAN DGA A/N: 362889	D988				
FILTER, (FEED GAS COALESCER), AM-SE-1 A/N: 362889	D998				
FILTER, (FEED GAS COALESCER), AM-SE-2 A/N: 362889	D999				
System 2 : LSR MEROX UNIT					S15-2
TOWER, CAUSTIC PREWASH, 21-V-1, DIAMETER: 4 FT 6 IN; HEIGHT: 20 FT A/N: 362872	D389				
REACTOR, MEROX, 21-V-2, DIAMETER: 5 FT; HEIGHT: 13 FT 6 IN A/N: 362872	D390				

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
SETTLING TANK, 21-V-3, CAUSTIC, DIAMETER: 5 FT 6 IN; LENGTH: 21 FT A/N: 362872	D391				
TOWER, WATER WASH, 21-V-5, DIAMETER: 4 FT 6 IN; HEIGHT: 20 FT A/N: 362872	D392				
TOWER, SALT, 21-V-6, DIAMETER: 6 FT; HEIGHT: 10 FT A/N: 362872	D393				
System 3 : LIGHT GASOLINE MEROX TREATING					S15-2
POT, ME-V110, DIAMETER: 1 FT 6 IN; LENGTH: 3 FT A/N: 362873	D394				
DRUM, ME-V201, DIAMETER: 3 FT 6 IN; HEIGHT: 20 FT A/N: 362873	D395				
SETTLING TANK, ME-V202, DIAMETER: 5 FT; HEIGHT: 17 FT A/N: 362873	D396				
FILTER, (SAND), ME-V203, DIAMETER: 5 FT; HEIGHT: 13 FT A/N: 362873	D975				
System 4 : SOUR WATER STRIPPING FACILITY					S15-2, S15-4
TANK, FLASH, SW-V-1, SOUR WATER FEED A/N: 362890	D397				

- * (1) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
VESSEL, STRIPPER, SW-V-2, SOUR WATER A/N: 362890	D398				
DRUM, REFLUX, SW-V-3, SOUR WATER, DIAMETER: 3 FT; LENGTH: 6 FT A/N: 362890	D399				
DRUM, SW-V-4, SOUR WATER STRIPPER CONDENSATE, DIAMETER: 2 FT; HEIGHT: 3 FT A/N: 362890	D400				
STORAGE TANK, FIXED ROOF, SW-TK-1, SOUR WATER A/N: 362890	D401				
SUMP, SW-SU-1, SOUR WATER COVERED A/N: 362890	D404				
TANK, FLASH, OX-V-1A, SOUR WATER FEED, DIAMETER: 12 FT; LENGTH: 37 FT A/N: 362890	D405				
System 5 : JET FUEL MEROX TREATING UNIT					S15-2
TANK, WASH, 22-V-7, WATER, DIAMETER: 5 FT; HEIGHT: 20 FT A/N: 362874	D824				
REACTOR, WASH, 22-V-2, MEROX, WATER, DIAMETER: 6 FT; HEIGHT: 17 FT 6 IN A/N: 362874	D916				

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
TANK, WASH, 22-V-3, CAUSTIC SETTLING, WATER, DIAMETER: 6 FT; LENGTH: 20 FT A/N: 362874	D917				
TOWER, WASH, CAUSTIC PRE-WASH, 22-V-1, CAUSTIC, DIAMETER: 5 FT; HEIGHT: 20 FT A/N: 362874	D847				
POT, WASH, 22-V-4, CATALYST DISSOLUTION, WATER, DIAMETER: 1 FT 4 IN; HEIGHT: 4 FT A/N: 362874	D918				
TANK, WASH, 22-V-6, COALESER, WATER, DIAMETER: 1 FT; LENGTH: 6 FT A/N: 362874	D919				
TOWER, (SALT) #1, JT-V-1, DIAMETER: 4 FT; HEIGHT: 26 FT A/N: 362874	D922				
TOWER, (SALT) #2, JT-V-2, DIAMETER: 10 FT; HEIGHT: 20 FT A/N: 362874	D923				
TANK, (CLAY TREATER) #1, JT-V-3, DIAMETER: 6 FT; HEIGHT: 26 FT A/N: 362874	D924				
TANK, (CLAY TREATER) #2, JT-V-4, DIAMETER: 5 FT; HEIGHT: 44 FT A/N: 362874	D925				
TANK, (CLAY TREATER) #3, JT-V-5, DIAMETER: 8 FT; HEIGHT: 35 FT A/N: 362874	D926				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
FILTER, (JET) #1, JT-V-6, DIAMETER: 5 FT; HEIGHT: 10 FT A/N: 362874	D927				
FILTER, (JET) #2, JT-V-7, DIAMETER: 2 FT; HEIGHT: 5 FT A/N: 362874	D928				
COMPRESSOR, (MEROX AIR), 22-C-1 A, INGERSOLL-RAND, 7.5 HP A/N: 362874	D971				
COMPRESSOR, (MEROX AIR), 22-C-1 B, INGERSOLL-RAND, 7.5 HP (SPARE) A/N: 362874	D972				
Process 10 : SULFUR PRODUCTION					
System 1 : NORTH SULFUR RECOVERY UNIT					S15-2, S15-3
KNOCK OUT POT, S-V-1, AMMONIA ACID, COMMON TO NORTH SRU AND SOUTH SRU, DIAMETER: 30 FT; HEIGHT: 8 FT A/N: 362888	D406				
KNOCK OUT POT, S-V-2, SOUR WATER GAS, COMMON TO NORTH SRU AND SOUTH SRU, DIAMETER: 30 FT; HEIGHT: 8 FT A/N: 362888	D407				
REACTOR, NS-R-1 A/N: 362888	D739				
BLOWER, (AIR), S-C-1A, 500 HP A/N: 362888	D989				

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(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
- (2) Denotes RECLAIM emission rate
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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Process 10 : SULFUR PRODUCTION					
BLOWER, (AIR), S-C-1B, 500 HP A/N: 362888	D990				
System 2 : SOUTH SULFUR RECOVERY UNIT					S15-2, S15-3
KNOCK OUT POT, S-V-1, AMMONIA ACID, COMMON TO NORTH SRU AND SOUTH SRU, DIAMETER: 30 FT; HEIGHT: 8 FT A/N: 362888	D406				
KNOCK OUT POT, S-V-2, SOUR WATER GAS, COMMON TO NORTH SRU AND SOUTH SRU, DIAMETER: 30 FT; HEIGHT: 8 FT A/N: 362888	D407				
REACTOR, SS-R-1 A/N: 362894	D740				
BLOWER, (AIR), S-C-1A, 500 HP A/N: 362888	D989				
BLOWER, (AIR), S-C-1B, 500 HP A/N: 362888	D990				
System 3 : TAIL GAS TREATING UNIT					
REACTOR, HYDROGENATION, TG-R- 1, DIAMETER: 6 FT; HEIGHT: 6 FT A/N: 348351	D413				
VESSEL, THREE STAGE OXIDIZER, TG-TK-1, DIAMETER: 16 FT; HEIGHT: 22 FT A/N: 348351	D414				

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|--|--|
| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10 : SULFUR PRODUCTION					
TANK, FROTH, TG-TK-2, SULFUR, DIAMETER: 7 FT; HEIGHT: 18 FT A/N: 348351	D415				
TANK, TG-TK-3, DIAMETER: 10 FT; HEIGHT: 21 FT A/N: 348351	D416				
TANK, TG-TK-4, LEAN STRETFORD SOLUTION, DIAMETER: 15 FT; HEIGHT: 24 FT A/N: 348351	D417				
ABSORBER, CHEMICAL, TG-V-2, DIAMETER: 4 FT 6 IN; HEIGHT: 63 FT A/N: 348351	D419	C428			
DRUM, TG-V-3, DIAMETER: 1 FT 4 IN; HEIGHT: 6 FT A/N: 348351	D420				
COOLING TOWER, STRETFORD SULFUR, TG-CT-1 A/N: 348351	C424	D409 D410			
KNOCK OUT POT, BLOWDOWN, TG-V-4 A/N: 348351	D426				
HEATER, TG-H-1, REDUCE GAS GENERATOR, REFINERY GAS, 3.2 MMBTU/HR WITH A/N: 348266 BURNER, REFINERY GAS, 3.2 MMBTU/HR	D427		NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 51.52 LBS/MMCF REFINERY GAS (1); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10 : SULFUR PRODUCTION					
TOWER, (QUENCH/CONDENSER), TG-V-1, DIAMETER: 48 FT; HEIGHT: 42 FT A/N: 348351	D991				
System 4 : LIQUID SULFUR HANDLING					S15-5
LOADING ARM, S-ME-1, ONE SULFUR LOADING ARM A/N: 362878	D429	D434			
CARBON ADSORBER, S-V-3, FILTER FOR SULFUR TANK NS-TK-1 A/N: 362878	C431	D409			
CARBON ADSORBER, S-V-4, FILTER FOR SULFUR TANK SS-TK-1 A/N: 362878	C433	D410			
SCRUBBER, (CAUSTIC), S-V-5 A/N: 362878	D434	D429			8-1, 67-6, 71-16, 90-1, 129-3
System 5 : TAIL GAS INCINERATOR					
INCINERATOR, TG-H-2, TAIL GAS, REFINERY GAS, 6 MMBTU/HR WITH A/N: 348613 BURNER, REFINERY GAS, 6 MMBTU/HR	C428	D419 S946	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	NOX: 0.602 LBS/HR REFINERY GAS (1); SOX: 2.918 LBS/HR REFINERY GAS (1)	23-2, 313-3, 315-1
STACK A/N: 348613	S946	C428			

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(7) Denotes NSR applicability limit
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(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10 : SULFUR PRODUCTION					
System 6 : SULFUR STORAGE					
STORAGE TANK, NS-TK-1, SULFUR, WITH A STRETTFORD EDUCTOR-MIXER (COMMON TO SULFUR TANK NO. ST-K-21), 1000 BBL; DIAMETER: 12 FT; LENGTH: 45 FT A/N: 348346	D409	C411 C424 C431			12-5, 57-2
STORAGE TANK, SS-TK-1, SULFUR, WITH A STRETTFORD EDUCTOR-MIXER (COMMON TO SULFUR TANK NO. ST-K-11), 1000 BBL; DIAMETER: 12 FT; LENGTH: 45 FT A/N: 348347	D410	C412 C424 C433			12-5, 57-3
CARBON ADSORBER, FILTER VENT FOR SULFUR TANK, NS-TK-1 A/N: 348346	C411	D409			
CARBON ADSORBER, FILTER VENT FOR SULFUR TANK SS-TK-1 A/N: 348347	C412	D410			
Process 11 : LOADING/UNLOADING					
System 2 : CRUDE OIL UNLOADING (SOUTH OF TK-4236 AND TK-2047)					
UNLOADING ARM, BOTTOM, CRUDE OIL, 4 TOTAL A/N: 348242	D441				67-1
System 3 : RACK NO. 7 - UNLOADING FACILITY PET. PROD. < 11 PSIA					
UNLOADING ARM, 2 TOTAL; DIAMETER: 4 IN A/N: 348384	D451	D620 C732			22-2, 71-3

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(7) Denotes NSR applicability limit
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(2) Denotes RECLAIM emission rate
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(6) Denotes air toxic control rule limit
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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
System 4 : C3/C4 TANK TRUCK LOADING/UNLOADING					S15-2
LOADING AND UNLOADING ARM, BOTTOM, BUTANE, 2 TOTAL; DIAMETER: 2 IN A/N: 348289	D481				
LOADING ARM, BOTTOM, PROPANE, CONNECTED TO 1" VAPOR RECOVERY LINE, 2 TOTAL; DIAMETER: 2 IN A/N: 348289	D483				
SCRUBBER, (POLISHER), V-KOH-1, 27 BBL CAPACITY, DIAMETER: 3 FT 6 IN; LENGTH: 15 FT 10 IN A/N: 348289	D956				
SCRUBBER, (POLISHER), V-KOH-2, 27 BBL CAPACITY, DIAMETER: 3 FT 6 IN; LENGTH: 15 FT 10 IN A/N: 348289	D957				
System 5 : ASPHALT TANK TRUCK LOADING FACILITY NO.1 (WEST)					
LOADING ARM, TOP, ASPHALT, 2 TOTAL; DIAMETER: 4 IN A/N: 348259	D485	C624			6-1, 12-1
System 6 : GASOLINE TRANSMIX AND MTBE UNLOADING					S31-1
UNLOADING ARM, BOTTOM, GASOLINE, MTBE, 2 TOTAL A/N: 348381	D439				67-1

- | | |
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| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
System 8 : SINGLE RACK BULK UNLOADING FACILITY					
UNLOADING ARM, BOTTOM, TOPPED CRUDE, 4 TOTAL A/N: 348252	D445				67-1
System 9 : NAPHTHA AND GAS OIL BULK LOADING AND UNLOADING					
LOADING AND UNLOADING ARM, BOTTOM, GAS OIL, 2 TOTAL A/N: 348382	D471				67-1
LOADING AND UNLOADING ARM, BOTTOM, NAPHTHA, 2 TOTAL A/N: 348382	D473				67-1
System 10 : DIESEL AND TRANSMIX BULK UNLOADING (WEST TK-10073)					
UNLOADING ARM, BOTTOM, DIESEL FUEL, TRANSMIX, 2 TOTAL A/N: 348246	D477				67-1
System 13 : UNLOADING FACILITY AT LAKE SEGRAVES					
UNLOADING ARM, TANK TRUCK, PETROLEUM PRODUCTS, 2 TOTAL A/N: 348234	D449	D620 C732			22-2, 71-3
System 14 : ASPHALT TANK TRUCK LOADING FACILITY NO.2 (EAST)					
LOADING ARM, TOP, ASPHALT, 2 TOTAL; DIAMETER: 4 IN A/N: 348268	D487				6-1, 12-1
System 17 : RACK NO.3 - TWO POSITION HVY OIL TK. TRUCK LOADING					
LOADING ARM, HEAVY OIL A/N: 348385	D840				

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(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
System 19 : BULK TEL HANDLING FACILITY					
UNLOADING ARM, TANK TRUCK, TEL, ONE POSITION, WITH SWING TYPE ARM A/N: 348280	D966				
TANK, (WEIGH TANK), MOTOR MIX, WITH EDUCTOR AND VENT LINE WITH MANUAL VALVE, 4250 GALS; DIAMETER: 5 FT 7 IN; LENGTH: 25 FT 7 IN A/N: 348280	D968				
TANK, (WEIGH TANK), TEL MIX, WITH EDUCTOR AND VENT LINE WITH MANUAL VALVE, 8500 GALS; DIAMETER: 7 FT 8 IN; LENGTH: 27 FT 1 IN A/N: 348280	D969				
Process 12 : OIL/WATER SEPARATION					
System 1 : OIL-WATER SEPARATION UNIT NO. 1, SERVING LOMAX, PLTFRMR # 3, AND FCCU					
WASTE WATER SEPARATOR, , LOMAX, COVERED WASTE WATER SEPARATOR PIT, DEPTH: 8 FT; LENGTH: 25 FT; WIDTH: 9 FT A/N: 348311	D489	C910			
CARBON ADSORBER, ACTIVATED CARBON A/N: 348311	C910	D489		ROG: 500 PPMV (5)	153-1

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 12 : OIL/WATER SEPARATION					
WASTE WATER SEPARATOR, WEIR SKIMMER BOX, DEPTH: 5 FT; LENGTH: 10 FT; WIDTH: 4 FT A/N: 348311	D491				
JUNCTION BOX, SAMPLE DRAINAGE, COVERED, WASTE OIL, DEPTH: 10 FT; LENGTH: 4 FT; WIDTH: 4 FT A/N: 348311	D492				
System 2 : WEST WASTEWATER TREATMENT					
JUNCTION BOX, FIXED COVER, DEPTH: 12 FT; LENGTH: 6 FT; WIDTH: 6 FT A/N: 348306	D493	D326			
JUNCTION BOX, FIXED COVER, DEPTH: 5 FT; LENGTH: 7 FT; WIDTH: 6 FT A/N: 348306	D494				
JUNCTION BOX, FIXED COVER, DEPTH: 12 FT; LENGTH: 6 FT; WIDTH: 6 FT A/N: 348306	D495				
JUNCTION BOX, FIXED COVER, DEPTH: 5 FT; DIAMETER: 6 FT A/N: 348306	D496				
JUNCTION BOX, FIXED COVER, DEPTH: 6 FT; LENGTH: 9 FT; WIDTH: 3 FT A/N: 348306	D497				

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 12 : OIL/WATER SEPARATION					
JUNCTION BOX, WEIR BASIN, FIXED COVER, DEPTH: 6 FT; LENGTH: 6 FT; WIDTH: 4 FT A/N: 348306	D498				
WASTE WATER SEPARATOR, MAIN STREAM WATER, DEPTH: 6 FT; LENGTH: 28 FT; WIDTH: 11 FT A/N: 348306	D499	C509			
WASTE WATER SEPARATOR, WEMCO UNIT, DEPTH: 12 FT; LENGTH: 28 FT; WIDTH: 10 FT A/N: 348323	D500	C510			
WASTE WATER SEPARATOR, CPI UNIT, DEPTH: 12 FT; LENGTH: 16 FT; WIDTH: 10 FT A/N: 348306	D501	C510			
STORAGE TANK, FIXED ROOF, 1035, WASTE WATER, 1000 BBL; DIAMETER: 20 FT; HEIGHT: 18 FT A/N: 348306	D503				
STORAGE TANK, FIXED ROOF, 10045, WASTE WATER, 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 348306	D504				
STORAGE TANK, FIXED ROOF, 54039, WASTE WATER, 54000 BBL; DIAMETER: 114 FT; HEIGHT: 27 FT 11 IN A/N: 348306	D505				

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 12 : OIL/WATER SEPARATION					
STORAGE TANK, FIXED ROOF, 20058, WASTE WATER, 20000 BBL; DIAMETER: 55 FT; HEIGHT: 48 FT A/N: 348306	D506				
STORAGE TANK, FIXED ROOF, 20057, WASTE WATER, 20000 BBL; DIAMETER: 55 FT; HEIGHT: 48 FT A/N: 348306	D507				
STORAGE TANK, FIXED ROOF, 34055, WASTE WATER, 34000 BBL; DIAMETER: 75 FT; HEIGHT: 48 FT A/N: 348306	D508				
CARBON ADSORBER, MAIN SWEET WATER SEPARATOR, ACTIVATED CARBON A/N: 348306	C509	D499		ROG: 500 PPMV (5)	23-1, 90-4, 128-1, 129-1, 153-3
CARBON ADSORBER, ACTIVATED CARBON A/N: 348306	C510	D500 D501		ROG: 500 PPMV (5)	23-1, 90-4, 128-1, 129-1, 153-4
System 3 : EAST WASTEWATER TREATMENT					
WASTE WATER SEPARATOR, ET-TK-1, DEPTH: 11 FT 6 IN; LENGTH: 30 FT; WIDTH: 6 FT 5 IN A/N: 348303	D512	C519			
WASTE WATER SEPARATOR, ET-TK-2, DEPTH: 11 FT 6 IN; LENGTH: 40 FT; WIDTH: 6 FT 5 IN A/N: 348303	D513	C519			

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 12 : OIL/WATER SEPARATION					
SUMP, ET-TK-4, STORM WATER, DEPTH: 7 FT; LENGTH: 12 FT; WIDTH: 7 FT A/N: 348303	D514				
STORAGE TANK, FIXED ROOF, ET-TK-5, WASTE OIL, 200 BBL; DIAMETER: 5 FT; HEIGHT: 14 FT A/N: 348303	D515	C519			
SUMP, ET-TK-6, FIXED COVER, WASTE WATER, DEPTH: 10 FT; DIAMETER: 5 FT; LENGTH: 6 FT A/N: 348303	D516				
SUMP, ET-TK-7, COVERED, WASTE WATER, HEIGHT: 15 FT; LENGTH: 6 FT; WIDTH: 6 FT A/N: 348303	D517				
AIR FLOATATION UNIT, AIR FLOATATION UNIT A/N: 348303	D518	C519			
CARBON ADSORBER, ACTIVATED CARBON A/N: 348303	C519	D512 D513 D515 D518		ROG: 500 PPMV (5)	23-1, 90-4, 128-1, 129-1, 153-4
Process 13 : STORAGE TANKS					
System 1 : FIXED ROOF STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 27089, ORGANIC LIQUIDS, 27000 BBL; DIAMETER: 70 FT; HEIGHT: 40 FT A/N: 348264	D524	D620 C732			1-5, 22-2, 57-1, 67-1, 71-3

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 27093, PETROLEUM PRODUCTS, 27000 BBL; DIAMETER: 70 FT; HEIGHT: 39 FT 10 IN A/N: 348243	D525				1-8, 67-1
STORAGE TANK, FIXED ROOF, 27103, GASOLINE, 27000 BBL; DIAMETER: 70 FT; HEIGHT: 40 FT A/N: 352897	D526	D620 C732			1-32, 71-3, 336-2
STORAGE TANK, FIXED ROOF, 34008, PETROLEUM PRODUCTS, 35000 BBL; DIAMETER: 78 FT; HEIGHT: 40 FT A/N: 348301	D527	D620 C732			54-1, 71-3
STORAGE TANK, FIXED ROOF, 40063, DIESEL FUEL, 40000 BBL; DIAMETER: 85 FT; HEIGHT: 40 FT A/N: 348229	D529				
STORAGE TANK, FIXED ROOF, 40064, HEAVY GAS OIL, 40000 BBL; DIAMETER: 85 FT; HEIGHT: 40 FT A/N: 348225	D530				
STORAGE TANK, FIXED ROOF, 40065, PETROLEUM PRODUCTS, 40000 BBL; DIAMETER: 78 FT 3 IN; HEIGHT: 48 FT A/N: 348248	D531				1-7, 67-1
STORAGE TANK, FIXED ROOF, 40106, PETROLEUM PRODUCTS, 40000 BBL; DIAMETER: 77 FT; HEIGHT: 47 FT 7 IN A/N: 348247	D532				1-7, 67-1

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 60107, PETROLEUM PRODUCTS, 60000 BBL; DIAMETER: 95 FT; HEIGHT: 48 FT A/N: 348244	D533				1-6, 67-1
STORAGE TANK, FIXED ROOF, 74111, KEROSENE, 74000 BBL; DIAMETER: 105 FT 1 IN; HEIGHT: 47 FT 9 IN A/N: 348227	D534				
STORAGE TANK, FIXED ROOF, 96066, PETROLEUM PRODUCTS, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 50 FT A/N: 348236	D535				1-4, 22-1, 67-1
STORAGE TANK, FIXED ROOF, 10004, ASPHALT, 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 348269	D539				6-6, 51-2, 90-3
STORAGE TANK, FIXED ROOF, 10046, ASPHALT, GAS OIL, 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 348271	D540				6-6, 51-1, 90-3
STORAGE TANK, FIXED ROOF, 10095, PETROLEUM DIST., 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 348288	D541	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 10096, PETROLEUM DIST., 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 348290	D542	D620 C732			57-1, 71-3

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 10102, PETROLEUM DIST., 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 348298	D543	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 27104, DIESEL FUEL, 27000 BBL; DIAMETER: 70 FT; HEIGHT: 40 FT A/N: 348300	D544				57-1
STORAGE TANK, FIXED ROOF, 5075, PETROLEUM DIST., 5000 BBL; DIAMETER: 35 FT; HEIGHT: 30 FT A/N: 348277	D551	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 5081, PETROLEUM DIST., 5000 BBL; DIAMETER: 30 FT; HEIGHT: 40 FT A/N: 348279	D552	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 5082, PETROLEUM DIST., 5000 BBL; DIAMETER: 30 FT; HEIGHT: 40 FT A/N: 348281	D553	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 5083, PETROLEUM DIST., 5000 BBL; DIAMETER: 30 FT; HEIGHT: 40 FT A/N: 348282	D554	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 5097, PETROLEUM DIST., 5000 BBL; DIAMETER: 30 FT; HEIGHT: 40 FT A/N: 348293	D555	D620 C732			57-1, 71-3

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 5098, PETROLEUM DIST., 5000 BBL; DIAMETER: 30 FT; HEIGHT: 40 FT A/N: 348295	D556	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 5099, PETROLEUM DIST., 5000 BBL; DIAMETER: 30 FT; HEIGHT: 40 FT A/N: 348296	D557	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 80071, PETROLEUM DIST., 80000 BBL; DIAMETER: 120 FT; HEIGHT: 40 FT A/N: 348275	D558	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 2029, PETROLEUM PRODUCTS, 2000 BBL; DIAMETER: 30 FT; HEIGHT: 16 FT A/N: 348261	D561				1-1, 67-1
STORAGE TANK, FIXED ROOF, 10024, PETROLEUM PRODUCTS, 10000 BBL; DIAMETER: 54 FT; HEIGHT: 24 FT A/N: 348239	D563				1-2, 22-1, 67-1
STORAGE TANK, FIXED ROOF, 20014, PETROLEUM PRODUCTS, 20000 BBL; DIAMETER: 60 FT; HEIGHT: 39 FT 9 IN A/N: 348251	D567				1-3, 67-1
STORAGE TANK, FIXED ROOF, 20091, PETROLEUM PRODUCTS, 20000 BBL; DIAMETER: 60 FT; HEIGHT: 39 FT 11 IN A/N: 348258	D569				1-3, 67-1

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(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 20092, PETROLEUM PRODUCTS, 20000 BBL; DIAMETER: 60 FT; HEIGHT: 40 FT 3 IN A/N: 348254	D570				1-3, 67-1
STORAGE TANK, FIXED ROOF, 10051, 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 348284	D730	D620 C732			57-1, 71-3
STORAGE TANK, FIXED ROOF, 37025, 37000 BBL; DIAMETER: 94 FT 3 IN; HEIGHT: 30 FT 1 IN A/N: 348265	D731				57-1
STORAGE TANK, FIXED ROOF, 43009, GASOLINE, 43000 BBL; DIAMETER: 80 FT; HEIGHT: 48 FT A/N: 352898	D736	D620 C732			1-36, 23-5, 71-3, 336-2
TANK, NOXOUT-A, 6500 GALS A/N: 348276	D755				
STORAGE TANK, 2030, SPENT CAUSTIC A/N: 352910	D1127				1-38, 22-1
STORAGE TANK, 1002, SPENT CAUSTIC A/N: 362425	D1128				1-37, 22-1
System 2 : FLOATING ROOF STORAGE TANKS					
STORAGE TANK, INTERNAL FLOATING ROOF, 96037, CRUDE OIL, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 48 FT WITH A/N: 348331	D572				6-3, 22-2, 67-1

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| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
FLOATING ROOF, PONTOON PRIMARY SEAL, WIPER TYPE SECONDARY SEAL, WIPER TYPE					
STORAGE TANK, INTERNAL FLOATING ROOF, 96086, CRUDE OIL, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 48 FT WITH A/N: 348329 FLOATING ROOF, PONTOON PRIMARY SEAL, WIPER TYPE SECONDARY SEAL, WIPER TYPE	D573				1-11, 6-2, 22-2, 67-1, 90-2
STORAGE TANK, EXTERNAL FLOATING ROOF, 96109, ORGANIC LIQUIDS, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 48 FT WITH A/N: 348322 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE	D574				22-2, 23-4

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| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, EXTERNAL FLOATING ROOF, 96110, ORGANIC LIQUIDS, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 48 FT WITH A/N: 348325 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE	D575				22-2, 23-4
STORAGE TANK, EXTERNAL FLOATING ROOF, 96112, PETROLEUM PRODUCTS, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 50 FT WITH A/N: 352904 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE	D576				1-35, 22-2, 23-6
STORAGE TANK, EXTERNAL FLOATING ROOF, 96113, ORGANIC LIQUIDS, DOUBLE DECK, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 50 FT WITH A/N: 348312	D577				1-9, 23-6, 67-1

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(4) Denotes BACT emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE					
STORAGE TANK, EXTERNAL FLOATING ROOF, 96114, ORGANIC LIQUIDS, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 50 FT WITH A/N: 348315 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE	D578				1-9, 23-6, 67-1
STORAGE TANK, EXTERNAL FLOATING ROOF, 96115, ORGANIC LIQUIDS, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 50 FT WITH A/N: 348318 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED	D579				1-9, 23-6, 67-1

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
SECONDARY SEAL, WIPER TYPE					
STORAGE TANK, EXTERNAL FLOATING ROOF, 60108, ORGANIC LIQUIDS, 60000 BBL; DIAMETER: 95 FT; HEIGHT: 48 FT WITH A/N: 348333 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE	D584				22-2, 23-4
STORAGE TANK, INTERNAL FLOATING ROOF, 79022, PETROLEUM PRODUCTS, 79000 BBL; DIAMETER: 117 FT; HEIGHT: 41 FT 6 IN WITH A/N: 352902 SECONDARY SEAL, WIPER TYPE FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED	D585				1-33, 6-3, 22-2, 90-5

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, INTERNAL FLOATING ROOF, 96090, CRUDE OIL, 96000 BBL; DIAMETER: 120 FT; HEIGHT: 47 FT 10 IN WITH A/N: 352903 SECONDARY SEAL, WIPER TYPE FLOATING ROOF, PONTOON PRIMARY SEAL, METALLIC SHOE	D586				1-34, 6-3, 22-2, 90-5
STORAGE TANK, EXTERNAL FLOATING ROOF, 65116, DIESEL FUEL, 65000 BBL; DIAMETER: 98 FT; HEIGHT: 48 FT WITH A/N: 348260 FLOATING ROOF, PONTOON, WELDED PRIMARY SEAL, METALLIC SHOE SECONDARY SEAL, WIPER TYPE	D819				1-10, 67-1
STORAGE TANK, EXTERNAL FLOATING ROOF, 60059, 60000 BBL; DIAMETER: 95 FT; HEIGHT: 48 FT WITH A/N: 348328 FLOATING ROOF, PONTOON, WELDED	D831				1-12, 22-2, 23-4, 67-1

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|--|--|
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
PRIMARY SEAL, METALLIC SHOE					
SECONDARY SEAL, WIPER TYPE					
System 3 : PRESSURIZED STORAGE TANKS					
STORAGE TANK, PRESSURIZED, 79084, LIQUIFIED PETROLEUM GAS, 79000 GALS; DIAMETER: 18 FT; LENGTH: 40 FT A/N: 348321	D587				
STORAGE TANK, PRESSURIZED, 6101, LIQUIFIED PETROLEUM GAS, 256200 GALS; DIAMETER: 40 FT 6 IN A/N: 348326	D588				
STORAGE TANK, PRESSURIZED, 8100, LIQUIFIED PETROLEUM GAS, 340200 GALS; DIAMETER: 44 FT 5 IN A/N: 348332	D589				
STORAGE TANK, PRESSURIZED, 30001, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 12 FT; LENGTH: 38 FT A/N: 348374	D590				
STORAGE TANK, PRESSURIZED, 30002, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 12 FT; LENGTH: 38 FT A/N: 348343	D591				

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(4) Denotes BACT emission limit
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(6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, PRESSURIZED, 30003, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 12 FT; LENGTH: 38 FT A/N: 348372	D592				
STORAGE TANK, PRESSURIZED, 30004, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 12 FT; LENGTH: 38 FT A/N: 348338	D593				
STORAGE TANK, PRESSURIZED, 30005, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 12 FT; LENGTH: 38 FT A/N: 348337	D594				
STORAGE TANK, PRESSURIZED, 30006, LIQUIFIED PETROLEUM GAS, 30000 GALS; DIAMETER: 12 FT; LENGTH: 38 FT A/N: 348335	D595				
System 4 : BAKER TANKS					
STORAGE TANK, FIXED ROOF, MST-5 (BAKER TYPE UR-1), 500 BBL WITH A/N: 348353	D826	C947			67-2, 67-3, 71-1, 128-1, 129-2, 153-2, 182-1
CARBON FILTER, TWO 55- GALLON DRUMS (CONNECTED IN SERIES), EACH DRUM CONTAINING AT LEAST 150 LBS. ACTIVATED CARBON	C947	D826			

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(4) Denotes BACT emission limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
STORAGE TANK, FIXED ROOF, MST-4 (BAKER TYPE UR-1), 500 BBL WITH A/N: 348287 CARBON FILTER, TWO 55- GALLON DRUMS (CONNECTED IN SERIES), EACH DRUM CONTAINING AT LEAST 150 LBS. ACTIVATED CARBON	D827 C948	C948 D827			67-2, 67-3, 71-1, 128-1, 129-2, 153-2, 182-1
STORAGE TANK, FIXED ROOF, MST-3 (BAKER TYPE UR-1), 500 BBL WITH A/N: 348292 CARBON FILTER, TWO 55- GALLON DRUMS (CONNECTED IN SERIES), EACH DRUM CONTAINING AT LEAST 150 LBS. ACTIVATED CARBON	D828 C949	C949 D828			67-2, 67-3, 71-1, 128-1, 129-2, 153-2, 182-1
STORAGE TANK, FIXED ROOF, MST-2 (BAKER TYPE UR-1), 500 BBL WITH A/N: 348294 CARBON FILTER, TWO 55- GALLON DRUMS (CONNECTED IN SERIES), EACH DRUM CONTAINING AT LEAST 150 LBS. ACTIVATED CARBON	D829 C950	C950 D829			67-2, 67-3, 71-1, 128-1, 129-2, 153-2, 182-1
STORAGE TANK, FIXED ROOF, MST-6 (BAKER TYPE UR-1), 500 BBL WITH A/N: 348297	D830	C951			67-2, 67-3, 71-1, 128-1, 129-2, 153-2, 182-1

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(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 13 : STORAGE TANKS					
CARBON FILTER, TWO 55- GALLON DRUMS (CONNECTED IN SERIES), EACH DRUM CONTAINING AT LEAST 150 LBS. ACTIVATED CARBON	C951	D830			
STORAGE TANK, FIXED ROOF, MST-1 (BAKER TYPE UR-1), 500 BBL WITH A/N: 348285	D850	C952			67-2, 67-3, 71-1, 128-1, 129-2, 153-2, 182-1
CARBON FILTER, TWO 55- GALLON DRUMS (CONNECTED IN SERIES), EACH DRUM CONTAINING AT LEAST 150 LBS. ACTIVATED CARBON	C952	D850			
Process 14 : STEAM GENERATION					
BOILER, KEYSTONE, REFINERY GAS, ERIE CITY IRONWORKS, MODEL 13M-200, 50 MMBTU/HR A/N:	D598	S712	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.14 LBS/MMBTU REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-3, 315-1
BOILER, FW-NB, REFINERY GAS, FOSTER WHEELER, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 29 MMBTU/HR WITH A/N: 348451	D599	S873	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2

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|--|--|
| (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 14 : STEAM GENERATION					
BURNER, WITH LOW NOX BURNER					
STACK A/N: 348226	S970				
STACK, DIAMETER: 4 FT 6 IN; HEIGHT: 25 FT A/N: 348451	S873	D599			
BOILER, FW-SB, REFINERY GAS, FOSTER WHEELER, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 29 MMBTU/HR WITH A/N: 348355 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 29 MMBTU/HR	D600	S874	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-1, 313-4, 315-2
STACK, DIAMETER: 4 FT 6 IN; HEIGHT: 25 FT A/N: 348355	S874	D600			
BOILER, NORTH HOLMAN, REFINERY GAS, HOLMAN BOILER WORKS INC., WITH LOW NOX BURNER, OXYGEN CONTENT CONTROL, SELECTIVE NONCATALYTIC REDUCTION FOR NOX, 40 MMBTU/HR WITH A/N:	D601	S875	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5A); NOX: 0.045 LBS/MMBTU REFINERY GAS (1); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313- 3, 315-1

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 14 : STEAM GENERATION					
BURNER, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 40 MMBTU/HR UREA INJECTION SYSTEM					
STACK, DIAMETER: 3 FT 6 IN; HEIGHT: 40 FT A/N:	S875	D601			
Process 15 : MISCELLANEOUS					
System 1 : ASPHALT HEATER					
HEATER, (ASPHALT HEATER), REFINERY GAS, BORN ENGINEERING CO., 4.95 MMBTU/HR WITH A/N: 348376 BURNER, REFINERY GAS, CALLIDUS TECH, INC., WITH LOW NOX BURNER, 4.95 MMBTU/HR	D961	S854	SOX: MAJOR SOURCE**; NOX: PROCESS UNIT**	CO: 400 PPMV NATURAL GAS (5); NOX: 115 PPMV NATURAL GAS (1); NOX: 30 PPMV NATURAL GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-4, 315-2
STACK, DIAMETER: 2 FT; HEIGHT: 30 FT A/N: 348376	S854	D961			
System 3 : JP-5 TREATER					S15-2
TANK, (SALT DRIER), CV-304, DIAMETER: 4 FT; HEIGHT: 26 FT A/N: 348240	D958				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : MISCELLANEOUS					
TANK, (CLAY TREATER), CV-305, DIAMETER: 5 FT; HEIGHT: 50 FT A/N: 348240	D959				
TANK, (CLAY TREATER), CV-306, DIAMETER: 6 FT; HEIGHT: 36 FT A/N: 348240	D960				
System 4 : EMERGENCY ICES					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, ONAN, MODEL DRY, 500 KWH WITH A/N: 348278 GENERATOR	D603		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1); SOX: 6.24 LBS/1000 GAL DIESEL (1)	
System 5 : NON-EMERGENCY ICES					
INTERNAL COMBUSTION ENGINE, , EMERGENCY UNIT, DIESEL FUEL, SULLAIR, MODEL 1600D 12V-71N DUQ, 12 CYLINDERS, NATURALLY ASPIRATED, 456 BHP A/N: 348263	D906		NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1); SOX: 6.24 LBS/1000 GAL DIESEL (1)	1-13, 12-4, 61-1, 67-4
Process 17 : AIR POLLUTION CONTROL					
System 2 : EMERGENCY FLARE RELIEF					S18-2
FLARE, GROUND FLARE, (Z TO F), JOHN ZINK, FOUR STAGE SYSTEM WITH 116 BURNERS, PROCESS GAS, EQUIPPED WITH LINEAR RELIEF GAS OXIDIZER (LRGO), THREE-STAGE WITH 48 BURNERS WITH A/N:	C626				

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| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : AIR POLLUTION CONTROL					
BURNER, 164 BURNERS TOTAL					
COMPRESSOR, (FLARE GAS RECOVERY) FL-C-1A, WITH A 75 HP MOTOR A/N: 362891	D1003				
COMPRESSOR, (FLARE GAS RECOVERY) FL-C-1B, WITH A 75 HP MOTOR A/N: 362891	D1004				
DRUM, (HEAVY OIL K.O.), FL-V-3, DIAMETER: 4 FT; HEIGHT: 12 FT A/N: 362891	D1005				
DRUM, (VRC SUCTION K.O.), FL-V-6, DIAMETER: 2 FT; HEIGHT: 6 FT A/N: 362891	D1006				
DRUM, (VRC K.O.), FL-V-7, DIAMETER: 1 FT 6 IN; HEIGHT: 4 FT 6 IN A/N: 362891	D1007				
DRUM, (SEAL), FL-V-8, DIAMETER: 12 FT; HEIGHT: 16 FT 3 IN A/N: 362891	D1008				
DRUM, (SEAL), FL-V-9, DIAMETER: 8 FT; HEIGHT: 26 FT A/N: 362891	D1009				
System 3 : VAPOR RECOVERY SYSTEM NO. 3					
KNOCK OUT POT, STAND PIPE, DIAMETER: 2 FT; HEIGHT: 25 FT A/N: 348304	D536				

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| * (1) Denotes RECLAIM emission factor | (2) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See Section J for NESHAP/MACT requirements |

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : AIR POLLUTION CONTROL					
POT, COMPRESSOR DISCHARGE, 3VR-V1, DIAMETER: 2 FT; HEIGHT: 10 FT A/N: 348304	D619				12-2, 12-3, 67-5
POT, COMPRESSOR SUCTION, 3VR-V2, DIAMETER: 2 FT; HEIGHT: 5 FT A/N:	D620	D449 D524 D526 D527 D541 D542 D543 D551 D552 D553 D554 D555 D556 D557 D558 D730 D736			1-14, 71-2, 246-1
ACCUMULATOR, 3VR-V3, CONDENSATE,, DIAMETER: 2 FT; HEIGHT: 3 FT A/N: 348304	D621				
POT, DRY GAS PRESSURIZING, 3VR-V5, DIAMETER: 1 FT; HEIGHT: 1 FT A/N: 348304	D622				
VESSEL, CONDENSATE DECANter, 3VR-V6, DIAMETER: 3 FT; LENGTH: 4 FT A/N: 348304	D623				
COMPRESSOR, VRC-3, 400 CFM, 150 HP MOTOR A/N: 348304	C728				
COMPRESSOR, VRC-3A, 400 CFM, 200 HP MOTOR A/N: 348304	C729				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : AIR POLLUTION CONTROL					
VESSEL, STEAM EDUCTOR, EMERGENCY BACKUP TO VRC-3 AND VRC-3A A/N:	C732	D449 D451 D524 D526 D527 D541 D542 D543 D551 D552 D553 D554 D555 D556 D557 D558 D730 D736			1-14, 71-2, 246-1
System 4 : ASPHALT LOADING RACK AIR POLLUTION CONTROL SYSTEM					
MIST ELIMINATOR, 2496, DIAMETER: 2 FT 6 IN; HEIGHT: 12 FT A/N: 348386	C624	D485			
BLOWER, 7 1/2 HP MOTOR A/N: 348386	D733				
Process 19 : ISOMERIZATION					
System 2 : BUTANE ISOMERIZATION					S4-1, S7-1, S15- 18, S31-1
DRUM, SURGE, I-V1, DEPROPANIZER FEED, DIAMETER: 3 FT 6 IN; LENGTH: 8 FT A/N: 348360	D330				
COLUMN, DEPROPANIZER, I-V3, DIAMETER: 3 FT 6 IN; HEIGHT: 86 FT A/N: 348360	D332				
DRUM, I-V-4, DEPROPANIZER REFLUX , DIAMETER: 5 FT; HEIGHT: 12 FT A/N: 348360	D333				

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| <p>*(1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|--|--|

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
VESSEL, BUTANE MOLECULAR SIEVES DRYER/SWEETNER, I-V5A, DIAMETER: 3 FT 6 IN; HEIGHT: 18 FT A/N: 348360	D334				
VESSEL, BUTANE MOLECULAR SIEVES DRYER/SWEETNER, I-V5B, DIAMETER: 3 FT 6 IN; HEIGHT: 18 FT A/N: 348360	D335				
KNOCK OUT POT, I-V6, REGENERATION GAS, DIAMETER: 3 FT; HEIGHT: 8 FT A/N: 348360	D336				
COLUMN, DEISOBUTANIZER, I-V7, DIAMETER: 5 FT; HEIGHT: 157 FT 9 IN A/N: 348360	D337				
ACCUMULATOR, I-V8, DEISOBUTANIZER REFLUX, DIAMETER: 6 FT 6 IN; LENGTH: 14 FT A/N: 348360	D338				
POT, I-V9, DEPROPANIZER REBOILER CONDENSATE, DIAMETER: 1 FT 6 IN; HEIGHT: 3 FT A/N: 348360	D339				
POT, I-V10, DEISOBUTANIZER REBOILER CONDENSATE, DIAMETER: 2 FT 6 IN; HEIGHT: 3 FT 6 IN A/N: 348360	D340				

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| (5)(5A)(5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.) |
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
REACTOR, NORTH ISOMERIZATION, I-V11, DIAMETER: 2 FT 6 IN; HEIGHT: 7 FT 6 IN A/N: 348360	D341				
REACTOR, MIDDLE ISOMERIZATION, I-V12, DIAMETER: 2 FT 6 IN; HEIGHT: 7 FT 6 IN A/N: 348360	D342				
REACTOR, SOUTH ISOMERIZATION, I-V13, DIAMETER: 2 FT 6 IN; HEIGHT: 7 FT 6 IN A/N: 348360	D343				
VESSEL, CARBON TETRACHLORIDE INJECTION, I-V-22, DIAMETER: 3 FT 6 IN; HEIGHT: 7 FT 6 IN A/N: 348360	D344				
VESSEL, SEPARATOR, I-V15, ISOMERIZATION REACTOR PRODUCTS, DIAMETER: 3 FT 6 IN; HEIGHT: 10 FT A/N: 348360	D345				
COLUMN, STABILIZER, I-V17, DIAMETER: 2 FT 6 IN; HEIGHT: 36 FT A/N: 348360	D347				
ACCUMULATOR, I-V18, STABILIZER REFLUX, DIAMETER: 2 FT 6 IN; HEIGHT: 6 FT A/N: 348360	D348				
SCRUBBER, I-V19, STABILIZER COLUMN GAS, DIAMETER: 2 FT 6 IN; HEIGHT: 41 FT 2 IN A/N: 348360	D349				

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
VESSEL, MAKEUP HYDROGEN DRYER, I-V20A, DIAMETER: 1 FT 6 IN; HEIGHT: 13 FT A/N: 348360	D350				
VESSEL, MAKEUP HYDROGEN DRYER, I-V20B, DIAMETER: 1 FT 6 IN; HEIGHT: 13 FT 10 IN A/N: 348360	D351				
TANK, SURGE, I-V21, REACTOR FEED, DIAMETER: 5 FT; LENGTH: 10 FT A/N: 348360	D352				
DRUM, (COMPRESSOR SUCTION), I-V2, SATURATED GAS, DIAMETER: 3 FT; LENGTH: 12 FT A/N: 348360	D976				
COMPRESSOR, I-C2, RECYCLE HYDROGEN, WITH A 25 HP MOTOR A/N: 348360	D977				
DRUM, (COMPRESSOR SUCTION), I-V16, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 348360	D978				
COMPRESSOR, , SATURATED GAS, I-C1, WITH A 200 HP MOTOR AND AUX. OIL PUMP WITH SINGLE MECH. SEAL A/N: 348360	D979				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
System 3 : BUTANE ISOMERIZATION HEATERS					
HEATER, ISOMERIZATION CHARGE, I-H-1, REFINERY GAS, 4 MMBTU/HR WITH A/N: 348362 BURNER, REFINERY GAS, TWO BURNERS, WITH LOW NOX BURNER, 4 MMBTU/HR	D367	S855	SOX: MAJOR SOURCE**; NOX: PROCESS UNIT**	CO: 400 PPMV REFINERY GAS (5); NOX: 115 PPMV REFINERY GAS (1); NOX: 30 PPMV REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-4, 315-2
STACK, DIAMETER: 2 FT 6 IN; HEIGHT: 10 FT A/N: 348362	S855	D367			
HEATER, ISOMERIZATION REGENERATOR, I-H-2, REFINERY GAS, 2 MMBTU/HR WITH A/N: 348379 BURNER, REFINERY GAS, WITH LOW NOX BURNER, 2 MMBTU/HR	D737	S856	SOX: MAJOR SOURCE**; NOX: PROCESS UNIT**	CO: 400 PPMV REFINERY GAS (5); NOX: 115 PPMV REFINERY GAS (1); NOX: 30 PPMV REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	313-4, 315-2
STACK, DIAMETER: 2 FT; HEIGHT: 20 FT A/N: 348379	S856	D737			

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
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(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Section D	Page: 83
Facility I.D.:	800373
Revision #:	4
Date:	November 17, 2000

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: DEVICE ID INDEX

The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.



**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION D: DEVICE ID INDEX

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D40	3	1	3
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D42	3	1	3
D43	3	1	3
D44	3	1	3
D60	3	1	4
D61	4	1	4
D62	5	1	5
D63	5	1	5
D69	5	1	6
D70	6	1	6
D71	6	2	1
D72	6	2	1
D73	6	2	1
D74	6	2	1
D75	7	2	1
D76	7	2	1
D77	7	2	1
D78	7	2	1
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**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION D: DEVICE ID INDEX

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D101	9	2	3
D102	9	2	3
D103	10	2	3
D104	10	2	3
D105	10	3	1
D106	10	3	1
D107	10	3	1
D108	10	3	1
D109	10	3	1
D110	10	3	1
D111	11	3	1
D112	11	3	1
D113	11	3	1
D114	11	3	1
D119	12	3	2
D120	12	3	2
C122	12	3	3
D123	12	3	4
D125	13	3	4
D127	13	3	4
D128	13	3	4
D145	14	4	1
D146	14	4	1
D147	14	4	1
D148	14	4	1
D149	14	4	1
D150	14	4	1
D151	14	4	1



AQMD

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Section D Page: 86
Facility I.D.: 800373
Revision #: 4
Date: November 17, 2000

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D152	14	4	1
D153	14	4	1
D159	15	4	2
D160	16	4	3
D161	16	4	3
D162	16	4	3
D163	16	4	3
D164	16	4	3
D169	17	4	4
D170	17	4	4
D171	18	4	5
D172	18	4	5
D173	18	4	5
D174	18	4	5
D175	18	4	5
D179	18	4	5
D180	18	4	5
D181	19	4	6
D182	19	4	6
D183	20	4	7
D184	20	4	7
D185	21	4	7
D186	23	5	1
D187	23	5	1
D188	24	5	1
D189	24	5	1
D190	24	5	1
D191	24	5	1
D192	24	5	1
D193	24	5	1
D194	24	5	1
D195	24	5	1
D200	25	5	2
D201	25	5	3
D202	25	5	3
D203	25	5	3



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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D204	26	5	3
D205	26	5	3
D206	26	5	3
D207	26	5	3
D210	26	5	3
D211	26	5	3
D212	26	5	3
D213	26	5	3
D214	26	5	3
D219	27	5	4
D220	27	5	4
D221	28	5	4
D222	28	6	1
D223	28	6	1
D224	28	6	1
D225	28	6	1
D226	29	6	1
D227	29	6	1
D228	29	6	1
D229	29	6	1
D230	29	6	1
D231	29	6	1
D232	29	6	1
D233	30	6	1
D234	30	6	1
D235	30	6	1
D236	30	6	1
D246	30	6	2
D247	21	4	8
D248	21	4	8
D249	22	4	8
D255	22	4	8
D256	22	4	8
D257	22	4	8
D260	22	4	8
D264	23	4	8



**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D266	23	4	8
D267	23	4	8
D274	34	7	2
D275	34	7	2
D276	35	7	2
D277	35	7	2
D278	36	8	1
D279	36	8	1
D280	36	8	1
D281	36	8	1
D282	36	8	1
D283	36	8	1
D284	36	8	1
D285	36	8	1
D286	37	8	1
D287	37	8	1
D288	37	8	1
D289	37	8	1
D290	37	8	1
D291	37	8	1
D292	37	8	1
D293	37	8	1
D294	37	8	1
D295	38	8	1
D296	38	8	1
D297	38	8	1
D298	38	8	1
D299	38	8	1
D300	38	8	1
D301	38	8	1
D302	38	8	1
D303	39	8	1
D304	39	8	1
D305	39	8	1
D306	39	8	1
D307	39	8	1



**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D308	39	8	1
D309	39	8	1
D311	39	8	1
D318	39	8	1
D324	40	8	1
D325	40	8	1
D326	40	8	1
D327	40	8	1
D328	40	8	1
D329	40	8	2
D330	78	19	2
D332	78	19	2
D333	78	19	2
D334	79	19	2
D335	79	19	2
D336	79	19	2
D337	79	19	2
D338	79	19	2
D339	79	19	2
D340	79	19	2
D341	80	19	2
D342	80	19	2
D343	80	19	2
D344	80	19	2
D345	80	19	2
D347	80	19	2
D348	80	19	2
D349	80	19	2
D350	81	19	2
D351	81	19	2
D352	81	19	2
D367	82	19	3
D368	41	9	1
D369	41	9	1
D370	41	9	1
D371	41	9	1



**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D372	41	9	1
D373	41	9	1
D374	42	9	1
D375	42	9	1
D376	42	9	1
D377	42	9	1
D378	42	9	1
D380	42	9	1
D381	42	9	1
D388	42	9	1
D389	43	9	2
D390	43	9	2
D391	44	9	2
D392	44	9	2
D393	44	9	2
D394	44	9	3
D395	44	9	3
D396	44	9	3
D397	44	9	4
D398	45	9	4
D399	45	9	4
D400	45	9	4
D401	45	9	4
D404	45	9	4
D405	45	9	4
D406	47	10	1
D406	48	10	2
D407	47	10	1
D407	48	10	2
D409	51	10	6
D410	51	10	6
C411	51	10	6
C412	51	10	6
D413	48	10	3
D414	48	10	3
D415	49	10	3



**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D416	49	10	3
D417	49	10	3
D419	49	10	3
D420	49	10	3
C424	49	10	3
D426	49	10	3
D427	49	10	3
C428	50	10	5
D429	50	10	4
C431	50	10	4
C433	50	10	4
D434	50	10	4
D439	52	11	6
D441	51	11	2
D445	53	11	8
D449	53	11	13
D451	51	11	3
D471	53	11	9
D473	53	11	9
D477	53	11	10
D481	52	11	4
D483	52	11	4
D485	52	11	5
D487	53	11	14
D489	54	12	1
D491	55	12	1
D492	55	12	1
D493	55	12	2
D494	55	12	2
D495	55	12	2
D496	55	12	2
D497	55	12	2
D498	56	12	2
D499	56	12	2
D500	56	12	2
D501	56	12	2



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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D503	56	12	2
D504	56	12	2
D505	56	12	2
D506	57	12	2
D507	57	12	2
D508	57	12	2
C509	57	12	2
C510	57	12	2
D512	57	12	3
D513	57	12	3
D514	58	12	3
D515	58	12	3
D516	58	12	3
D517	58	12	3
D518	58	12	3
C519	58	12	3
D524	58	13	1
D525	59	13	1
D526	59	13	1
D527	59	13	1
D529	59	13	1
D530	59	13	1
D531	59	13	1
D532	59	13	1
D533	60	13	1
D534	60	13	1
D535	60	13	1
D536	76	17	3
D539	60	13	1
D540	60	13	1
D541	60	13	1
D542	60	13	1
D543	61	13	1
D544	61	13	1
D551	61	13	1
D552	61	13	1



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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D553	61	13	1
D554	61	13	1
D555	61	13	1
D556	62	13	1
D557	62	13	1
D558	62	13	1

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D561	62	13	1
D563	62	13	1
D567	62	13	1
D569	62	13	1
D570	63	13	1
D572	63	13	2
D573	64	13	2
D574	64	13	2
D575	65	13	2
D576	65	13	2
D577	65	13	2
D578	66	13	2
D579	66	13	2
D584	67	13	2
D585	67	13	2
D586	68	13	2
D587	69	13	3
D588	69	13	3
D589	69	13	3
D590	69	13	3
D591	69	13	3
D592	70	13	3
D593	70	13	3
D594	70	13	3
D595	70	13	3
D598	72	14	0
D599	72	14	0



**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D600	73	14	0
D601	73	14	0
D603	75	15	4
D619	77	17	3
D620	77	17	3
D621	77	17	3
D622	77	17	3
D623	77	17	3
C624	78	17	4
C626	75	17	2
C629	11	3	1
C728	77	17	3
C729	77	17	3
D730	63	13	1
D731	63	13	1
C732	78	17	3
D733	78	17	4
C735	31	6	2
D736	63	13	1
D737	82	19	3
D739	47	10	1
D740	48	10	2
D741	7	2	1
D742	7	2	1
D743	4	1	4
D755	63	13	1
D819	68	13	2
D824	45	9	5
D826	70	13	4
D827	71	13	4
D828	71	13	4
D829	71	13	4
D830	71	13	4
D831	68	13	2
D840	53	11	17
D841	13	3	5



**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D847	46	9	5
D850	72	13	4
S854	74	15	1
S855	82	19	3
S856	82	19	3
S857	8	2	2
S858	9	2	2
S859	12	3	2
S860	15	4	2
S861	17	4	4
S862	18	4	4
S863	19	4	6
S864	19	4	6
S865	20	4	7
S866	20	4	7
S867	21	4	7
S868	25	5	2
S869	34	7	2
S870	34	7	2
S871	35	7	2
S872	41	8	2
S873	73	14	0
S874	73	14	0
S875	74	14	0
S876	2	1	2
S877	4	1	4
S878	4	1	4
S879	4	1	4
S880	5	1	6
S881	6	1	6
S882	35	7	2
S883	31	6	2
D884	21	4	8
D885	21	4	8
D887	22	4	8
D890	22	4	8



**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D899	22	4	8
D900	23	4	8
D906	75	15	5
C910	54	12	1
D915	23	4	8
D916	45	9	5
D917	46	9	5
D918	46	9	5
D919	46	9	5
D922	46	9	5
D923	46	9	5
D924	46	9	5
D925	46	9	5
D926	46	9	5
D927	47	9	5
D928	47	9	5
D930	5	1	5
D931	8	2	1
D932	8	2	1
D937	15	4	1
D938	24	5	1
S940	28	5	4
S942	12	3	3
S946	50	10	5
D956	52	11	4
D957	52	11	4
D958	74	15	3
D959	75	15	3
D960	75	15	3
D961	74	15	1
D966	54	11	19
D968	54	11	19
D969	54	11	19
S970	73	14	0
D971	47	9	5
D972	47	9	5



**FACILITY PERMIT TO OPERATE
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Device Index For Section D			
Device ID	Section D Page No.	Process	System
D973	15	4	1
D973	16	4	3
D974	15	4	1
D974	16	4	3
D975	44	9	3
D976	81	19	2
D977	81	19	2
D978	81	19	2
D979	81	19	2
D982	13	3	4
D983	42	9	1
D984	43	9	1
D985	43	9	1
D986	43	9	1
D987	43	9	1
D988	43	9	1
D989	47	10	1
D989	48	10	2
D990	48	10	1
D990	48	10	2
D991	50	10	3
D992	27	5	3
D993	27	5	3
D994	25	5	1
D996	30	6	1
D997	30	6	1
D998	43	9	1
D999	43	9	1
D1000	11	3	1
D1001	13	3	4
D1002	23	4	8
D1003	76	17	2
D1004	76	17	2
D1005	76	17	2
D1006	76	17	2
D1007	76	17	2



**FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1008	76	17	2
D1009	76	17	2
D1010	13	3	5
D1011	31	7	1
D1012	31	7	1
D1013	31	7	1
D1014	32	7	1
D1015	32	7	1
D1016	32	7	1
D1017	32	7	1
D1018	32	7	1
D1019	32	7	1
D1020	32	7	1
D1021	32	7	1
D1022	33	7	1
D1023	33	7	1
D1024	33	7	1
D1025	33	7	1
D1026	33	7	1
D1027	33	7	1
D1028	33	7	1
D1029	33	7	1
D1030	33	7	1
D1127	63	13	1
D1128	63	13	1
D1148	29	6	1



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F2-1. The operator shall limit emissions from this facility as follows

CONTAMINANT	EMISSIONS LIMIT
Combination of Volatile Hazardous Air Pollutants (VHAPs)	Less than 25 TONS IN ANY ONE YEAR
Single Volatile Hazardous Air Pollutant (VHAP)	Less than 10 TONS IN ANY ONE YEAR

[40CFR 63 Subpart CC, 8-18-1995; 40CFR 63 Subpart R, 12-14-1994]

F5-1. The following conditions shall apply to all devices subject to Regulation XX - RECLAIM at this facility:

1. Devices subject to this condition shall not be operated unless Reclaim Trading Credits (RTC) for NOX and SOX are procured and deposited to the allocation account of this facility in an amount not less than the amount of allocations initially issued to Powerine Oil Co. (ID 800103) for the compliance years 1998 (683,837 LBS for NOX and 469,930 LBS for SOX) and 1999 (583,835 LBS for NOX and 402,588 LBS for SOX).
2. The operator may be allowed to procure a lesser amount of RTC if it can be demonstrated in writing to the satisfaction of the Executive Officer, and thereupon approved in writing, that the amount, at a minimum, is adequate to offset the expected emissions within the 12 months following the start of operation.
3. The operator shall have the CEMS provided for any equipment subject to this condition certified in accordance with RECLAIM rule requirements within 12 months of any operation (including testing) of the equipment. Failure to have the CEMS certified within the 12 month deadline shall result in determining emissions in accordance with missing data procedures under Appendix A of Rules 2011 and 2012, where applicable.

F5-2. The following conditions shall apply to all heaters and boilers at this facility:

All heaters and boilers with maximum rated capacity of greater than 40 mmBtu/hr, as specified in this permit, shall be subject to Rule 1109 and a refinery-wide rate nitrogen oxides emission limit of 0.03 lb/mmBtu or less. These heaters and boilers shall be subject to this rule until the facility demonstrated to the satisfaction of the Executive Officer compliance with all monitoring and reporting requirements of Rules 2011 and 2012.

All heaters and boilers with maximum rated capacity between 5 mmBtu/hr or greater and 40 mmBtu/hr or less shall be subject to Rule 1146. These heaters and boilers shall be subject to this rule until the facility demonstrated to the satisfaction of the Executive Officer compliance with all monitoring and reporting requirements of Rules 2011 and 2012.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- F8-1. The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 27-jan-1995 for this facility.
- F8-2. The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the City of Santa Fe Springs City Council Certified Final Environmental Impact Report dated 27-jul-2000 for this facility.
- F14-1. The operator shall not use liquid fuel containing sulfur compounds in excess of 0.05 percent by weight.
- F16-1. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

In order to qualify for the exemption from 40 CFR63 Subpart R, Cenco shall document and record total facility HAP emissions. The findings shall be submitted and approved by EPA prior to issuance of the final Permit to Operate for the gasoline loading racks

[40CFR 63 Subpart CC, 8-18-1995; 40CFR 63 Subpart R, 2-28-1997]

- F24-1. Accidental release prevention requirements of Section 112(r)(7):
 - a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).
 - b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- F25-1. The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/Title V permit issued by the AQMD pursuant to Rule 201 - Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

- (a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser, and shell and tube exchanger)
- (b) In-line Mixer
- (c) Pump
- (d) Knockout Pot - Compressor inlet (immediate inlet) and interstage
- (e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

SYSTEM CONDITIONS



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- S4-1. The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All new connections for gas/vapor and light liquid service, including flanges and fittings, shall not emit fugitive VOC in excess of 500 ppmv, measured by USEPA Method 21.

[Systems subject to this condition : Process 3, System 6; Process 4, System 8; Process 6, System 1; Process 7, System 1; Process 8, System 1 , 3 , 4 , 5; Process 9, System 1 , 6; Process 10, System 7 , 8; Process 12, System 4; Process 15, System 6; Process 19, System 2]

- S7-1. The following conditions shall apply to all refinery operation and related devices from this system:

Final drawings and/or specifications of the equipment installed/constructed, including material balances and process flow diagrams, shall be submitted to the District within 60 days prior to the operation of the equipment.

[Systems subject to this condition : Process 3, System 6; Process 7, System 1; Process 8, System 1 , 3 , 4; Process 12, System 4; Process 15, System 6; Process 19, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S7-2. The following conditions shall apply to all refinery operation and related devices from this system:

Final drawings and/or specifications of the equipment installed/constructed, including material balances and process flow diagrams, shall be submitted to the District within 60 days prior to the operation of the equipment.

This system shall be capable of being remotely activated to transfer all the hydrofluoric (HF) acid inventory for the alkylation unit to a temporary storage tank in about 10 minutes in the event of acid leak to atmosphere. This acid evacuation system shall be vented to a relief gas scrubber prior to processing in the refinery flare system.

The modified HF acid storage tank shall be operated under a closed system and shall have a vent connection to a vapor recovery system.

[Systems subject to this condition : Process 8, System 5]

S13-1. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	40CFR60, SUBPART	GGG

[Systems subject to this condition : Process 8, System 3 , 4 , 5; Process 9, System 6; Process 10, System 8]

S13-2. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

[Systems subject to this condition : Process 10, System 7 , 8 , 9]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S13-3. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	District Rule	1176
ROG	40CFR60, SUBPART	GGG
ROG	40CFR60, SUBPART	QQQ

[Systems subject to this condition : Process 3, System 6; Process 15, System 6]

S13-4. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	District Rule	1176
ROG	40CFR60, SUBPART	GGG
ROG	40CFR60, SUBPART	QQQ
ROG	District Rule	463

[Systems subject to this condition : Process 12, System 4]

S15-1. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to the amine gas treating system.

This process/system shall not be operated unless the amine gas treating system is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 4, System 1 , 3 , 5]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S15-2. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

This process/system shall not be operated unless the blowdown flare is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 1, System 1, 3, 5; Process 2, System 1; Process 3, System 1, 4; Process 4, System 1, 3, 5; Process 5, System 1, 3, 5; Process 9, System 1, 2, 3, 4, 5; Process 10, System 1, 2; Process 11, System 4; Process 15, System 3; Process 19, System 1]

S15-3. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to a tail gas unit.

This process/system shall not be operated unless the Stretford solution treating system of the tail gas unit is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 10, System 1, 2]

S15-4. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to the sulfur recovery system.

This process/system shall not be operated unless the sulfur recovery system is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 9, System 1, 4]

S15-5. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to a caustic scrubber connected to a Stretford cooling tower.

This process/system shall not be operated unless the caustic scrubber and Stretford cooling tower are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 10, System 4]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S15-6. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases except PRVs in Hydrogen gas service shall be directed to a blowdown flare system (P17, S2) which is in full use and has a valid permit to receive vent gases from this system.

This process/system shall not be operated unless the blowdown flare is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 6, System 1]

S15-8. The vent gases from all affected devices of this process/system shall be vented as follows:

All tail gas from the sulfur recovery unit(s) shall be vented to the tail gas unit(s) at all times except during emergency as regulated under Rule 118. All vapor from the sulfur pit shall be vented to the Claus Reaction Furnace.

This process/system shall not be operated unless the tail gas unit and the tail gas incinerator are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 10, System 7 , 8 , 9]

S15-10. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All sour gases shall be directed to the amine gas treating system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 4, System 8; Process 7, System 1]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S15-11. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All sour gases shall be directed to the sour gas treating unit(s).

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 3, System 6]

S15-12. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 1]

S15-13. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 3]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S15-14. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 4]

S15-15. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 5]

S15-16. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 12, System 4]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S15-17. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 15, System 6]

S15-18. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 19, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- S18-2. All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Crude Distillation (Process: 1, System: 1, 3, and 5)

Coking and Residual Conditioning (Process: 2, System: 1 and 3)

Hydrotreating [Device D1056 shall not be vented except during emergency relief, startup, or shutdown] (Process: 4, System: 1, 3, 5, 7, and 8)

FCCU [Devices D1052, D1053, and D1054 shall not be vented except during emergency relief, startup, or shutdown] (Process: 3, System: 1, 4, 5, and 6)

Catalytic Reforming (Process: 5, System: 1, 3, and 5)

Hydrogen Production [Devices D1126 shall not be vented except during emergency relief, startup, or shutdown] (Process: 6, System: 1)

Alkylation and Polymerization [Devices D309, D1031, D1032, D1033, D1034, D1035, D1036, D1037, and D1038 shall not be vented except during emergency relief, startup, or shutdown] (Process: 8, System: 1, 3, and 4)

Treating/Stripping [Devices D1082, D1085, and D1086 shall not be vented except during emergency relief, startup, or shutdown] (Process: 9, System: 1, 2, 3, 4, 5, and 6)

Isomerization [Devices D1118, D1119, D1122, D1123, and D1124 shall not be vented except during emergency relief, startup, or shutdown] (Process: 19, System: 1 and 2)

Sulfur Production [emergency relief only] (Process: 10, System: 1, 2, 3, 7, and 8)

Hydrocracking Unit (Process: 7, System: 1)

Saturated Gas Recovery Unit [emergency relief only] (Process: 15, System: 6)

JP-5 Treater (Process: 15, System: 3)

[Systems subject to this condition : Process 17, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

S31-1. The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 352861 352864 352865 352866 352867 352881 352882 352885 352886 352887 352890 352892 353375 353406 353408 353409 353412 355320 355321 355322 358369:

All valves shall be bellows seal valves except in the following applications: valves in heavy liquid service, control valves, instrument piping/tubing valves, valves requiring torsional stem motion, situations where valve failure could pose safety hazard (e.g., drain valves with stems in the horizontal position), retrofit/special application valves with space limitation,

and valves not commercially available (e.g., valves larger than 8 inches, valves larger than 2 inches that require special alloys or connectors, etc.). The District shall approve all exceptions to this requirement.

All valves and new major components shall be physically identified in the field with special marking that distinguish the components from non-BACT components. Additionally, all new components shall be identified as BACT components in the records.

The operator shall provide the following information to the District no later than 60 days after initial startup of the equipment in this system:

(a) Process and instrumentation diagrams (or some other equivalent District-approved diagrams) that identify all valves. Along with the diagrams, the operator shall provide a listing of all valves categorized by location, type, size, accessibility and service; and,

(b) A recalculation of fugitive emissions based on actual fugitive components installed and removed from service. All valves shall be categorized by size and service. The operator shall submit a listing of all non-bellows seal valves categorized by tag number, type, size, body material, service, operating temperature, operating pressure and reason(s) why bellows seal valves were not used.

All non-bellows seal valves shall be inspected monthly using EPA Method 21. The operator may begin quarterly inspections, upon District approval, after two consecutive monthly inspections in which only two percent or less of non-bellows seal valves are found to be leaking above 500 ppmv.

The leak rate from non-bellows seal valves and other non-valve fugitive components shall not exceed 500 ppmv. A leak rate greater than 500 ppmv, but less than or equal to 1,000 ppmv, shall be repaired within 14 calendar days after detection of the leak.

[Systems subject to this condition : Process 3, System 6; Process 4, System 8; Process 6, System 1; Process 7, System 1; Process 8, System 1 , 3 , 4 , 5; Process 9, System 1 , 6; Process 10, System 7 , 8; Process 11, System 6 , 11 , 20 , 21 , 22 , 23; Process 12, System 4; Process 15, System 6; Process 19, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- S34-1. A remote terminal unit (RTU), which has been approved by the Executive Officer, shall be installed at least 60 days prior to the startup of this unit. The RTU shall be operated and maintained to continuously monitor and record signals generated by all hydrofluoric acid sensors. This RTU shall be compatible with the District's Hydrofluoric Acid Emergency Monitoring Central Station (HF-CS) in such a way that the data contained in the RTU and real time outputs of the sensors can be displayed remotely by the HF-CS. Each hydrofluoric sensor shall be calibrated monthly. Calibration reports shall be generated and submitted to the District within 15 days of performing the calibration.

The RTU shall be operated and maintained to provide display of both real time and historical data generated by each of the hydrofluoric acid sensors. Trends of historical data shall also be generated, recorded, and displayed by the RTU. The RTU shall be operated such that it can be accessed remotely by the HF-CS so that the HF-CS can display all information available at the RTU. The RTU shall also transmit and record alarm messages to the HF-CS whenever an alarm status is identified at any hydrofluoric acid sensor. An alarm status shall be triggered whenever any of the following happens:

- Any sensor detects a hydrofluoric acid concentration of 6 PPM or more, or
- Any sensor fails to generate any expected signal, is put off-line or is shutdown.

The alarm message shall be formatted as specified by the Executive Officer and shall contain all parameters as specified by the Executive Officer. At a minimum, the RTU shall contain data collected during the past 365 days. Sensor and alarm data for the past two years shall be kept at the site and made available upon request from the Executive Officer or his representatives.

This condition shall not apply during hydrofluoric acid sensor or RTU breakdown if all of the requirements stated below are met:

- The breakdown did not result from operator error, neglect, improper operation or poor maintenance.
- Steps are immediately taken to repair or rectify the condition causing the breakdown within 24 hours or other time period approved by the Executive Officer.
- The District Central Station or the Executive Officer is notified of the breakdown within 8 hours of its occurrence.

This condition shall not apply during routine quarterly maintenance of the affected equipment, with the prior approval of the Executive Officer

[Systems subject to this condition : Process 8, System 1 , 3 , 4 , 5]

DEVICE CONDITIONS



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 1-1. The operator shall limit the throughput to no more than 84000 gallons per day.
[Devices subject to this condition : D561]
- 1-2. The operator shall limit the number of turnovers to no more than 50 in any one year.
[Devices subject to this condition : D563]
- 1-3. The operator shall limit the throughput to no more than 840000 gallons per day.
[Devices subject to this condition : D567, D569, D570]
- 1-4. The operator shall limit the number of turnovers to no more than 40 in any one year.
[Devices subject to this condition : D535]
- 1-5. The operator shall limit the throughput to no more than 5000 barrels in any one day.
[Devices subject to this condition : D524]
- 1-6. The operator shall limit the throughput to no more than 2.52e+06 gallons per day.
[Devices subject to this condition : D533]
- 1-7. The operator shall limit the throughput to no more than 1.68e+06 gallons per day.
[Devices subject to this condition : D531, D532]
- 1-8. The operator shall limit the throughput to no more than 1.134e+06 gallons per day.
[Devices subject to this condition : D525]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 1-9. The operator shall limit the number of turnovers to no more than 36 in any one year.

[Devices subject to this condition : D577, D578, D579]

- 1-10. The operator shall limit the throughput to no more than 1.5e+06 barrel(s) in any one year.

[Devices subject to this condition : D819]

- 1-11. The operator shall limit the number of turnovers to no more than 60 in any one year.

[Devices subject to this condition : D573]

- 1-12. The operator shall limit the throughput to no more than 2.659e+06 barrel(s) in any one year.

[Devices subject to this condition : D831]

- 1-13. The operator shall limit the operating time to no more than 200 hour(s) in any one year.

[Devices subject to this condition : D906]

- 1-14. The operator shall limit the operation to no more than 3 in any one year.

For the purpose of this condition, operation shall be defined as degassing of the tanks served by these devices.

[Devices subject to this condition : D620, C732]

- 1-32. The operator shall limit the throughput to no more than 118800 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D526]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 1-33. The operator shall limit the throughput to no more than 65570 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D585]

- 1-34. The operator shall limit the throughput to no more than 326400 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D586]

- 1-35. The operator shall limit the throughput to no more than 288000 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D576]

- 1-36. The operator shall limit the throughput to no more than 172000 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D736]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 1-37. The operator shall limit the throughput to no more than 500 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D1128]

- 1-38. The operator shall limit the throughput to no more than 791 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D1127]

- 6-1. The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 400 Deg F.

To comply with this condition, the operator shall monitor the temperature as specified in condition number 12-1.

[Devices subject to this condition : D485, D487]

- 6-2. The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 30 percent of the Lower Explosive Limit.

To comply with this condition, the operator shall monitor the hydrocarbon concentration as specified in condition number 90-3.

[Devices subject to this condition : D573]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 6-3. The operator shall use this equipment in such a manner that the hydrocarbon concentration being monitored, as indicated below, does not exceed 50 percent of the Lower Explosive Limit.

[Devices subject to this condition : D572, D585, D586]

- 6-6. The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 400 Deg F.

To comply with this condition, the operator shall monitor the temperature as specified in condition number 90-3.

[Devices subject to this condition : D539, D540]

- 8-1. The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 10 of the pH scale.

To comply with this condition, the operator shall monitor the pH as specified in condition number 90-1.

[Devices subject to this condition : D434]

- 12-1. The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the asphalt.

[Devices subject to this condition : D485, D487]

- 12-2. The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure at the discharge of D619.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[Devices subject to this condition : D619]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 12-3. The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate at the discharge of D619.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[Devices subject to this condition : D619]

- 12-4. The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[Devices subject to this condition : D906]

- 12-5. The operator shall install and maintain a(n) measuring device to accurately indicate the flow rate of the Stretford solution.

[Devices subject to this condition : D409, D410]

- 12-10. The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the hydrogen produced.

[RULE 1189, 1-21-2000]

[Devices subject to this condition : D226]

- 22-1. The operator shall not use this equipment with materials having a true vapor pressure of 0.5 psia or greater under actual operating conditions.

[Devices subject to this condition : D535, D563, D1127, D1128]

- 22-2. The operator shall not use this equipment with materials having a true vapor pressure of 11 psia or greater under actual operating conditions.

[Devices subject to this condition : D449, D451, D524, D572, D573, D574, D575, D576, D584, D585, D586, D831]

- 23-1. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1176

[Devices subject to this condition : C509, C510, C519]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 23-2. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

[Devices subject to this condition : D70, D93, D94, D159, D170, D246, D274, D275, D276, D277, C428, D601]

- 23-4. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	K

[Devices subject to this condition : D574, D575, D584, D831]

- 23-5. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Kb

[Devices subject to this condition : D736]

- 23-6. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	40CFR60, SUBPART	Ka

[Devices subject to this condition : D576, D577, D578, D579]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

28-1. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to demonstrate compliance with the NOX and CO emission limits under District Rule 1146.

The test shall be conducted on or before December 1, 1993, and every year thereafter.

[Devices subject to this condition : D93, D94, D119, D159, D169, D170, D181, D182, D183, D184, D185, D200, D219, D220, D221, D274, D275, D276, D329, D599, D600, D601]

51-1. The following condition number(s) shall not apply if all of the requirements stated below are met:

Condition number 6-8

Condition number 90-3

Requirement number 1: the asphalt is handled in a manner approved by the Executive Officer that does not create excessive visible emissions

[Devices subject to this condition : D540]

51-2. The following condition number(s) shall not apply if all of the requirements stated below are met:

Condition number 90-3

Condition number 6-7

Requirement number 1: the asphalt is handled in a manner approved by the Executive Officer that does not create excessive visible emissions

[Devices subject to this condition : D539]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 54-1. The operator is not required to vent this equipment to the following equipment if all of the requirements listed below are met:

Device ID: D620 [POT, COMPRESSOR SUCTION, 3VR-V2]

Requirement number 1: storing petroleum liquids having a vapor pressure less than 0.5 Psia. under actual storage conditions.

Requirement number 2: The vapor concentration at the Sampling Hatch is less than 3500 PPM by Vol. as Methane, as determined by an OVA calibrated with Methane.

[Devices subject to this condition : D527]

- 57-1. The operator shall vent this equipment to a vapor control system which has been issued an operating permit by the Executive Officer whenever it stores petroleum distillate having a vapor pressure of 1.5 psia or greater under actual storing conditions.

[Devices subject to this condition : D524, D541, D542, D543, D544, D551, D552, D553, D554, D555, D556, D557, D558, D730, D731]

- 57-2. The operator shall vent this equipment to Device C411 whenever Device D424 is shut down for any reason or is experiencing any problem.

[Devices subject to this condition : D409]

- 57-3. The operator shall vent this equipment to C412 whenever Device D424 is shut down for any reason or is experiencing any problem.

[Devices subject to this condition : D410]

- 61-1. The operator shall not use fuel oil containing the following specified compounds:

Compound		weight percent
Sulfur	greater than	0.05

[Devices subject to this condition : D906]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 67-1. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):
throughput

[Devices subject to this condition : D439, D441, D445, D471, D473, D477, D524, D525, D531, D532, D533, D535, D561, D563, D567, D569, D570, D572, D573, D577, D578, D579, D819, D831]

- 67-2. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The total hydrocarbon concentration monitored at the inlet of the first carbon filter

The total hydrocarbon concentration monitored at the inlet and outlet of the second carbon filter

The monitoring of the above hydrocarbon concentrations shall be done on a daily basis

The monitoring unit used shall be capable of indicating hydrocarbon concentration up to 100,000 ppmv and utilizing one of the following concepts : diffusion sensor; flame ionization system calibrated with methane; infrared ionization system calibrated with methane or ultraviolet ionization system calibrated with methane

[Devices subject to this condition : D826, D827, D828, D829, D830, D850]

- 67-3. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The hydrocarbon concentration, in ppmv, at the exhaust to the atmosphere from the carbon filters

The date and time when breakthrough occurs when spent carbon is replaced

Records for the above shall be done on a daily basis. Such records shall be maintained for a period of two years, and shall be made available to District authorized personnel upon request

[Devices subject to this condition : D826, D827, D828, D829, D830, D850]

- 67-4. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The date of engine operation, the elapsed time, in hours, and the reason for operation

The records shall be kept and maintained on file for at least two years, and shall be made available to District authorized representative upon request

[Devices subject to this condition : D906]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 67-5. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Records obtained for flow rate and discharge pressure shall be kept and maintained for at least two years, and shall be made available to District authorized representative upon request.

[Devices subject to this condition : D619]

- 67-6. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

pH measurements on the scrubber liquid

Records shall be kept and maintained for at least two years, and shall be made available to District authorized representative upon request

[Devices subject to this condition : D434]

- 71-1. The operator shall only operate this equipment if it is vented to its vapor control device.

[Devices subject to this condition : D826, D827, D828, D829, D830, D850]

- 71-2. The operator shall only use this equipment to handle degassed vapors from one serviced tank at a time.

[Devices subject to this condition : D620, C732]

- 71-3. The operator shall only , after a degassing operation, remove the hatch/cover from this equipment if the vapor concentration at the vapor recovery manifold or its hatch/cover is less than 3500 parts per million by volume methane.

[Devices subject to this condition : D449, D451, D524, D526, D527, D541, D542, D543, D551, D552, D553, D554, D555, D556, D557, D558, D730, D736]

- 71-16. The operator shall only operate this equipment if a DP cell level indicating device is provided and used.

[Devices subject to this condition : D434]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 90-1. The operator shall periodically monitor the pH of the recirculating caustic solution before and after each sulfur loading operation according to the following specifications:

The operator shall monitor once every time sulfur is to be loaded.

[Devices subject to this condition : D434]

- 90-2. The operator shall periodically monitor the hydrocarbon concentration in the vapor space above the internal floating roof according to the following specifications:

The operator shall use a District approved Organic Vapor Analyzer (OVA) to monitor the parameter.

[Devices subject to this condition : D573]

- 90-3. The operator shall periodically monitor the temperature of asphalt in this device according to the following specifications:

The operator shall use temperature gauge to monitor the parameter.

[Devices subject to this condition : D539, D540]

- 90-4. The operator shall periodically monitor the VOC concentration at the outlet of the carbon adsorber according to the following specifications:

The operator shall monitor once every three months. The test shall be performed in compliance with District Rule 1176(G).

[Devices subject to this condition : C509, C510, C519]

- 90-5. The operator shall periodically monitor the hydrocarbon concentration in the vapor space according to the following specifications:

The operator shall use an explosimeter or equivalent device to monitor the parameter.

[Devices subject to this condition : D585, D586]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 128-1. The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

[Devices subject to this condition : C509, C510, C519, D826, D827, D828, D829, D830, D850]

- 129-1. The operator shall only dispose solid waste from this equipment at an approved waste disposal site.

[Devices subject to this condition : C509, C510, C519]

- 129-2. The operator shall only dispose solid waste from this equipment to an approved hazardous waste site or to a licensed recycler. The operator shall keep a record of all disposal activities.

[Devices subject to this condition : D826, D827, D828, D829, D830, D850]

- 129-3. The operator shall only dispose liquid waste from this equipment to a Stretford solution source.

[Devices subject to this condition : D434]

- 136-1. The operator shall store all coke in the coke building and shall keep all coke in closed storage.

[Devices subject to this condition : D104]

- 137-1. The operator shall treat petroleum coke storage piles and petroleum coke with dust suppressant agents such as sealants, and wetting and moisture retention solutions, as needed, to prevent any air borne dust emissions at all times.

[Devices subject to this condition : D104]

- 153-1. The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of each carbon.

[Devices subject to this condition : C910]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 153-2. The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough occurs when the hydrocarbon monitor reading indicates a concentration of 500 ppmv at the outlet of each carbon filter.

[Devices subject to this condition : D826, D827, D828, D829, D830, D850]

- 153-3. The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough shall be defined as the condition when hydrocarbon monitor reading indicates a concentration of 500 or more ppmv at the outlet of each carbon adsorber.

[Devices subject to this condition : C509]

- 153-4. The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough shall be defined as the condition when the hydrocarbon monitor reading indicates a concentration of 500 or more ppmv at the outlet of each carbon adsorber.

[Devices subject to this condition : C510, C519]

- 182-1. The operator shall test this equipment in accordance with the following specifications:

If hydrogen sulfide is present in the initial analysis, the concentration of H₂S at the outlet of each carbon filter shall be monitored daily and shall not exceed 10 ppmv

If the benzene concentration in the initial analysis is more than 10 ppmw, the operator shall comply with the requirements of the benzene waste operation NESHAPS (40 CFR Part 61, Subpart FF)

[Devices subject to this condition : D826, D827, D828, D829, D830, D850]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 246-1. The operator shall notify the District a minimum of 5 days prior to any degassing operation to be conducted at this location. This notification shall include, but not limited to the following items:

Item 1: Date and time of the degassing operation

Item 2: Notification shall be made by calling the Stationary Source Compliance Division

[Devices subject to this condition : D620, C732]

- 313-1. This device is classified as a non-operated major SO_x and NO_x source as defined under Rules 2011 and 2012 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

(a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and

(b) Remove all burners

Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

[Devices subject to this condition : D108]

- 313-3. This device is classified as a non-operated major SO_x and NO_x source as defined under Rules 2011 and 2012 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

(a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and

(b) Remove a section of the process feed line(s) and place a blind flange on both ends of the process feed line(s)

Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

[Devices subject to this condition : D36, D60, D61, D69, D70, D120, D246, D277, D427, C428, D598, D601, C629, D743]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- 313-4. This device is classified as a non-operated major SOx source as defined under Rule 2011 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

- (a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and
 - (b) Remove a section of the process feed line(s) and place a blind flange on both ends of the process feed line(s)
- Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

[Devices subject to this condition : D93, D94, D119, D159, D169, D170, D181, D182, D183, D184, D185, D200, D219, D220, D221, D274, D275, D276, D329, D367, D599, D600, D737, D961]

- 315-1. Once this device is operated, it shall no longer be classified as non-operational. This device shall also meet the monitoring requirements of Rules 2011 and 2012, subparagraph (c)(2)(A) or (c)(2)(B) no later than 30 calendar days after the start of operation except as provided in Rule 2011, paragraph (c)(11) and Rule 2012, paragraph (c)(10).

[Devices subject to this condition : D36, D60, D61, D69, D70, D108, D120, D246, D277, D427, C428, D598, D601, C629, D743]

- 315-2. Once this device is operated, it shall no longer be classified as non-operational. This device shall also meet the monitoring requirements of Rule 2011, subparagraph (c)(2)(A) or (c)(2)(B) no later than 30 calendar days after the start of operation except as provided in Rule 2011, paragraph (c)(11).

[Devices subject to this condition : D93, D94, D119, D159, D169, D170, D181, D182, D183, D184, D185, D200, D219, D220, D221, D274, D275, D276, D329, D367, D599, D600, D737, D961]

- 336-1. The operator shall vent the vent gases from this equipment as follows:

All residual HF vent gases shall be vented to a relief gas scrubber for neutralization prior to discharge to a blowdown flare system.

[Devices subject to this condition : D282, D285, D289]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

336-2. The operator shall vent the vent gases from this equipment as follows:

This equipment shall not be operated unless the vapor recovery system described in Process 17, System 3 is in full use and has a valid permit to receive vent gases from this equipment.

[Devices subject to this condition : D526, D736]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]
5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION E: ADMINISTRATIVE CONDITIONS

- a. Three years for a facility not subject to Title V; or
 - b. Five years for a facility subject to Title V.
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
- a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For a large NO_x source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
 - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over 15 consecutive minutes. [409]
 - g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulation, except those listed in Table 1 of Rule 2001 for NO_x RECLAIM sources and Table 2 of Rule 2001 for SO_x RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO_x or SO_x emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO_x or SO_x source, respectively. [2001]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION E: ADMINISTRATIVE CONDITIONS

9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).
10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.
 - b. Brief description of the equipment tested.
 - c. Operating conditions under which test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
11. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]



**FACILITY PERMIT TO OPERATE
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SECTION E: ADMINISTRATIVE CONDITIONS

12. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182.
[204]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

I. NOx Monitoring Conditions

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major NOx source to continuously measure the concentration of NOx emissions and all other applicable variables specified in Rule 2012, Table 2012-1 and Rule 2012, Appendix A, Table 2-A to determine the NOx emissions rate from each source. The time-sharing of CEMS among NOx sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2012]
2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2012]
3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2012. [2012]
4. Use valid data collected by an AQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2012, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
5. Follow missing data procedures as specified in Rule 2012 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2012]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter and any device specified by the Executive Officer as necessary to determine monthly fuel usage or other applicable variables specified in Rule 2012, Appendix A, Table 3-A. The sharing of totalizing fuel meter may be allowed by the Executive Officer if the fuel meter serves large sources which have the same emission factor, concentration limit, or emission rate. The sharing of totalizing fuel meters shall not be allowed for large sources which are required to comply with an annual heat input limit. [2012]
2. Comply at all times with the specified NOx concentration limit in PPM measured over any continuous 60 minutes for that source or establish an equipment-specific emission rate that is reliable, accurate, representative of that sources emissions, and in accordance with the requirements specified in Rule 2012, Appendix A, Chapter 5. [2012]

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

II. NOx Source Testing and Tune-up Conditions

1. The operator shall conduct all required NOx source testing in compliance with an AQMD-approved source test protocol. [2012]
2. The operator shall, as applicable, conduct source tests for every large NOx source no later than December 31, 1996 and every 3 years thereafter. The source test shall include the determination of NOx concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

3. All NOx large sources and NOx process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]

III. SOx Monitoring Conditions

D. The Operator of a SOx Major Source, as defined in Rule 2011, shall, as applicable:

1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major SOx source to continuously measure the concentration of SOx emissions or fuel sulfur content and all other applicable variables specified in Rule 2011, Table 2011-1 and Rule 2011, Appendix A, Table 2-A to determine the SOx emissions rate from each source. The time-sharing of CEMS among SOx sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2011]
2. Install, maintain, and operate a totalizing fuel meter approved by the Executive Officer for each major source. [2011]
3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2011. [2011]
4. Use valid data collected by an AQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2011, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
5. Follow missing data procedures as specified in Rule 2011 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

d. fees.

E. The Operator of a SOx Process Unit, as defined in Rule 2011, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2011, Table 2011-1, and Rule 2011, Appendix A, Table 3-A. The sharing of totalizing meters shall be allowed for process units except those using fuels with different sulfur contents. [2011]

IV. SOx Source Testing Conditions

1. The operator shall conduct all required SOx source testing in compliance with an AQMD-approved source test protocol. [2011]



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SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:

I. Recordkeeping Requirements for all RECLAIM Sources

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
 - a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
 - b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
 - c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request, records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

II. Reporting Requirements for all RECLAIM Sources

1. The operator shall submit a quarterly certification of emissions including the facility's total NOx or SOx emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

NOx Reporting Requirements

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major NOx source, the total daily mass emissions of NOx and daily status codes. Such data



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2012]

2. Calculate NOx emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2012 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2012]
3. Submit an electronic report within 15 days following the end of each month totaling NOx emissions from all major NOx sources during the month. [2012]
4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2012]

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall:

1. Install, maintain and operate a modem or any reporting device approved by the Executive Officer to report, to the AQMD, the total monthly NOx mass emissions from each large NOx source. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. Such data shall be reported within 15 days after the end of each calendar month. [2012]

C. The Operator of NOx Process Units, as defined in Rule 2012, shall:

1. Electronically report the calculated quarterly NOx emissions for each NOx process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]



AQMD

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

SOx Reporting Requirements

D. The Operator of a SOx Major Source, as defined in Rule 2011, shall, as applicable:

1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major SOx source, the total daily mass emissions of SOx and daily status codes. Such data shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2011]
2. Calculate SOx emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2011 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2011]
3. Submit an electronic report within 15 days following the end of each month totaling SOx emissions from all major SOx sources during the month. [2011]
4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2011]

E. The Operator of a SOx Process Unit, as defined in Rule 2011, shall:

1. Electronically report the calculated quarterly SOx emissions for each SOx process unit. [2011]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION II: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
System 1 : ATMOSPHERIC DISTILLATION UNIT "A"					S15-2
TANK, SURGE, C-V-202, STABILIZER FEED, DIAMETER: 9 FT; HEIGHT: 25 FT A/N: 348223 † Permit to Construct Issued: 01/13/99	D813				23-3, 179-1, 204-1, 204-2, 204-3, 204-4, 204-5
System 2 : ATMOSPHERIC DISTILLATION UNIT "A" HEATERS					
HEATER, CH-300, "A" CRUDE FEED, NATURAL GAS, REFINERY GAS, 52 MMBTU/HR WITH A/N: 352629 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. PSMR-15M, NATURAL GAS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 10 TOTAL; 52 MMBTU/HR	D36	S876	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.03 LBS/MMBTU REFINERY GAS (5); NOX: 23 PPMV REFINERY GAS (7) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-15, 12-12, 23- 7, 28-5, 40-1, 67-10
HEATER, CRUDE UNIT "A" PREFLASH TOWER, CH-103, REFINERY GAS, 25 MMBTU/HR WITH A/N: 348305 † Permit to Construct Issued: 01/13/99	D903	S965	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); NOX: 40 PPMV REFINERY GAS (3); NOX: 25 PPMV REFINERY GAS (4); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	28-3, 40-1, 63-2, 313-2, 313-4, 315-2

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

† This permit to construct was issued to the previous operator at a prior date. the equipment was constructed and the permit was subsequently transferred to this operator.



AQMD

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Section II Page: 2
Facility I.D.: 800373
Revision #: 2
Date: November 17, 2000

FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
BURNER, REFINERY GAS, WITH LOW NOX BURNER, 25 MMBTU/HR					
STACK, DIAMETER: 4 FT 6 IN; HEIGHT: 35 FT A/N: 348305 † Permit to Construct Issued: 01/13/99	S965	D903			
System 4 : ATMOSPHERIC DISTILLATION UNIT "B" HEATERS					
HEATER, CB-H-01, "B" CRUDE CHARGE NO. 1, NATURAL GAS, REFINERY GAS, 46 MMBTU/HR WITH A/N: 352871 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. HEVD-16, NATURAL GAS, REFINERY GAS, JOHN-ZINK, WITH LOW NOX BURNER, 10 TOTAL; 46 MMBTU/HR	D60	S878	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.046 LBS/MMBTU REFINERY GAS (5); NOX: 35 PPMV REFINERY GAS (7) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-21, 12-12, 23- 7, 28-6, 40-1, 67-10
HEATER, CB-H-02, "B" CRUDE CHARGE NO. 2, NATURAL GAS, REFINERY GAS, 46 MMBTU/HR WITH A/N: 352872 Permit to Construct Issued: 11/17/00	D61	S879	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.046 LBS/MMBTU REFINERY GAS (5); NOX: 35 PPMV REFINERY GAS (7)	1-21, 12-12, 23- 7, 28-6, 40-1, 67-10

- | | |
|---|---|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|---|

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
BURNER, MODEL NO. HEVD-16, NATURAL GAS, REFINERY GAS, JOHN-ZINK, WITH LOW NOX BURNER, 10 TOTAL; 46 MMBTU/HR				SOX: 26.278 LBS/MMCF REFINERY GAS (1)	
HEATER, C-H-100, "B" CRUDE CHARGE, NATURAL GAS, REFINERY GAS, 47.5 MMBTU/HR WITH A/N: 352632 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. PSMR-20M, NATURAL GAS, REFINERY GAS, WITH LOW NOX BURNER, 4 TOTAL; 47.5 MMBTU/HR	D743	S877	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.03 LBS/MMBTU REFINERY GAS (5); NOX: 23 PPMV REFINERY GAS (7) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-22, 12-12, 23- 7, 28-5, 40-1, 67-10
System 6 : VACUUM DISTILLATION HEATERS					
HEATER, V-H-1, VACUUM HEATER NO. 1., NATURAL GAS, REFINERY GAS, 65 MMBTU/HR WITH A/N: 352875 Permit to Construct Issued: 11/17/00	D69	S880	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.03 LBS/MMBTU REFINERY GAS (5); NOX: 23 PPMV REFINERY GAS (7)	1-19, 12-12, 23- 7, 28-5, 40-1, 67-10

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1 : CRUDE DISTILLATION					
BURNER, MODEL NO. PSMR-15M, NATURAL GAS, REFINERY GAS, JOHN-ZINK, WITH LOW NOX BURNER, 8 TOTAL; 65 MMBTU/HR				SOX: 26.278 LBS/MMCF REFINERY GAS (1)	
HEATER, V-II-2, VACUUM HEATER NO. 2., NATURAL GAS, REFINERY GAS, 49 MMBTU/HR WITH A/N: 352877 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. PSMR-15M, NATURAL GAS, REFINERY GAS, JOHN-ZINK, WITH LOW NOX BURNER, 9 TOTAL; 49, MMBTU/HR	D70	S881	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.03 LBS/MMBTU REFINERY GAS (5); NOX: 23 PPMV REFINERY GAS (7) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-18, 12-12, 23- 9, 28-5, 40-1, 67-10, 163-1

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2 : COKING AND RESIDUAL CONDITIONING					
System 2 : DELAYED COKING HEATERS					
HEATER, DC-II-1C, COKER CHARGE, NATURAL GAS, WITH LOW NOX BURNER, 50 MMBTU/HR WITH A/N: 352869 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. PSMR- 15RM, NATURAL GAS, JOHN ZINK, WITH LOW NOX BURNER, 8 TOTAL; 50 MMBTU/HR	D1087	C1089	NOX: MAJOR SOURCE**	NH3: 9 PPMV NATURAL GAS (4); NOX: 38.46 LBS/MMCF NATURAL GAS (1); NOX: 5 PPMV NATURAL GAS (4); NOX: 0.006 LBS/MMBTU NATURAL GAS (5)	1-16, 1-28, 12-7, 12-12, 23-9, 28- 9, 40-1, 57-4, 63-4, 67-12, 71- 7, 71-13, 82-2, 171-1
STACK, DIAMETER: 4 FT 8 IN; HEIGHT: 102 FT A/N: 352869 Permit to Construct Issued: 11/17/00	S1091	C1089			
Process 3 : FCCU					
System 4 : FCC - GAS CONCENTRATION UNIT					S15-2
COMPRESSOR, GC-X, (STANDBY) A/N: 348363 † Permit to Construct Issued: 01/13/99	D905				71-14
System 6 : FCC GASOLINE SPLITTER UNIT					S4-1, S7-1, S13-3, S15-11, S31-1
FRACTIONATOR, (FCC GASOLINE SPLITTER), G-V-24, DIAMETER: 4 FT 6 IN; HEIGHT: 82 FT A/N: 353408 Permit to Construct Issued: 11/17/00	D1052				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : FCCU					
VESSEL, (FCC GASOLINE SPLITTER OVERHEAD ACCUMULATOR), G-V-25, DIAMETER: 4 FT; LENGTH: 15 FT A/N: 353408 Permit to Construct Issued: 11/17/00	D1053				
DRUM, (SURGE), G-V-27, DIAMETER: 6 FT; LENGTH: 22 FT A/N: 353408 Permit to Construct Issued: 11/17/00	D1054				
Process 4 : HYDROTREATING					
System 4 : KEROSENE HYDROTREATER UNIT HEATERS					
HEATER, KHT-II-1, REACTOR FEED, NATURAL GAS, REFINERY GAS, 10 MMBTU/HR WITH A/N: 352630 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. PSMR-13M, NATURAL GAS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 3 TOTAL; 10 MMBTU/HR	D169	S861	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 125 PPMV AT 24 HRS. REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5) NOX: 23 PPMV REFINERY GAS (7); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-17, 12-12, 23-8, 28-5, 40-1, 67-10

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4 : HYDROTREATING					
HEATER, KHT-H-2, STRIPPER REBOILER, NATURAL GAS, REFINERY GAS, 12 MMBTU/HR WITH A/N: 352631 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. PSMR-13M, NATURAL GAS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 4 TOTAL; 12 MMBTU/HR	D170	S862	NOX: LARGE SOURCE**; SOX: MAJOR SOURCE**	CO: 400 PPMV REFINERY GAS (5); CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5A); NOX: 125 PPMV REFINERY GAS (3); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5) NOX: 23 PPMV REFINERY GAS (7); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-23, 12-12, 23-10, 28-5, 40-1, 67-10, 163-1
System 8 : DIESEL HYDRODESULFURIZATION (DHT) UNIT					S4-1, S15-10, S31-1
TANK, SURGE, GAS OIL AND DIESEL FEED CHARGE, DHT-V-53, DIAMETER: 6 FT; HEIGHT: 16 FT WITH A/N: 352887 Permit to Construct Issued: 11/17/00 PUMP, CENTRIFUGAL TYPE, DHT-P-31B, WITH SINGLE MECHANICAL SEAL, 50 HP, 1 TOTAL	D1056				23-11, 171-3

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5 : CATALYTIC REFORMING					
System 5 : REFORMATE SPLITTER					S15-2
FRACTIONATOR, SPLITTER, RS-V-1, DIAMETER: 6 FT 6 IN; HEIGHT: 122 FT A/N: 348316 † Permit to Construct Issued: 01/13/99	D774				
ACCUMULATOR, RS-V-2, SPLITTER OVERHEAD, DIAMETER: 5 FT 6 IN; LENGTH: 15 FT A/N: 348316 † Permit to Construct Issued: 01/13/99	D775				
POT, SPLITTER AROMATIC DRAIN COLLECTION, RS-V-4, DIAMETER: 2 FT; HEIGHT: 4 FT A/N: 348316 † Permit to Construct Issued: 01/13/99	D776				
Process 6 : HYDROGEN PRODUCTION					
System 1 : HYDROGEN PLANT					S4-1, S15-6, S31-1
REACTOR, DESULFURIZER, HY-V-28, FEED TREATMENT, WITH AN ONLINE GAS CHROMATOGRAPHY ANALYZER, DIAMETER: 4 FT 6 IN; HEIGHT: 9 FT A/N: 353406 Permit to Construct Issued: 11/17/00	D756				23-11
REACTOR, HY-V-29, DESULFURIZER, PRE-REFORMER FEED GAS, DIAMETER: 4 FT; HEIGHT: 8 FT A/N: 353406 Permit to Construct Issued: 11/17/00	D1126				23-11, 171-3

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|--|---|
| <p>*(1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|--|---|

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 7 : HYDROCRACKING					
System 1 : HYDROCRACKER UNIT					S4-1, S7-1, S15-10, S31-1
VESSEL, (COALESCER), HC-V-33, DIAMETER: 3 FT 6 IN; LENGTH: 4 FT 11 IN A/N: 353375 Permit to Construct Issued: 11/17/00	D1050				23-11
VESSEL, (COALESCER), HC-V-34, DIAMETER: 3 FT 6 IN; LENGTH: 4 FT 11 IN A/N: 353375 Permit to Construct Issued: 11/17/00	D1051				23-11
System 2 : HYDROCRACKER/DESULFURIZER UNIT HEATERS					
HEATER, HC-H-4, FRACTIONATOR REBOILER,, NATURAL GAS, REFINERY GAS, 49.5 MMBTU/HR WITH A/N: 352873 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. PSMR-20M, NATURAL GAS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 4 TOTAL; 49.5 MMBTU/HR	D277	S882	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 0.03 LBS/MMBTU REFINERY GAS (5); NOX: 23 PPMV REFINERY GAS (7) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-20, 12-12, 23-9, 28-5, 40-1, 67-10, 163-1

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
System 1 : ALKYLATION UNIT					S4-1, S7-1, S15-12, S31-1, S34-1
DRUM, A-V-3, MODIFIED HF, DIAMETER: 10 FT; LENGTH: 40 FT A/N: 353412 Permit to Construct Issued: 11/17/00	D282	D324			23-12, 71-11
REACTOR, ALKYLATION, A-R-1, DIAMETER: 3 FT 6 IN; LENGTH: 35 FT A/N: 353412 Permit to Construct Issued: 11/17/00	D309				6-5, 23-12, 71-12
SCRUBBER, A-V-5, RELIEF GAS, DIAMETER: 2 FT 6 IN; HEIGHT: 34 FT A/N: 353412 Permit to Construct Issued: 11/17/00	D324	D282 D285 D289 D1041			23-12
PUMP, A-P-1 A, IIF FRESH ACID, SEALLESS, MAGNETICALLY COUPLED, 50 H.P. A/N: 353412 Permit to Construct Issued: 11/17/00	D907				23-12
COLUMN, A-V-9A, ACID RERUN, DIAMETER: 3 FT; HEIGHT: 19 FT 6 IN A/N: 353412 Permit to Construct Issued: 11/17/00	D1031				23-12
COLUMN, A-V-32, EXTRACTION,, DIAMETER: 4 FT 4 IN; HEIGHT: 5 FT 5 IN A/N: 353412 Permit to Construct Issued: 11/17/00	D1032				23-12

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION II: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
STORAGE TANK, A-V-33, ADDITIVE, DIAMETER: 7 FT 4 IN; LENGTH: 15 FT A/N: 353412 Permit to Construct Issued: 11/17/00	D1033				23-12
TANK, SURGE, A-V-34, RECYCLE ADDITIVE, DIAMETER: 5 FT; HEIGHT: 15 FT A/N: 353412 Permit to Construct Issued: 11/17/00	D1034				23-12
VESSEL, A-V-35, WATER KNOCK- OUT, WITH BOOT, 1 FT. DIA. X 3 FT-7 IN. H., DIAMETER: 1 FT 0.5 IN; LENGTH: 5 FT A/N: 353412 Permit to Construct Issued: 11/17/00	D1035				23-12
VESSEL, A-V-36, ASO DECANter, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 353412 Permit to Construct Issued: 11/17/00	D1036				23-12
System 3 : ASO TREATING / NEUTRALIZATION					S4-1, S7-1, S13-1, S15-13, S31-1, S34-1
MIXER, A-M-1, (STATIC), OIL RECOVERY ASO A/N: 355322 Permit to Construct Issued: 11/17/00	D1037				

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

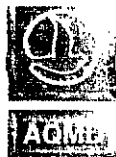
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8 : ALKYLATION AND POLYMERIZATION					
DRUM, A-V-27, ASO NEUTRALIZATION, DIAMETER: 10 FT; LENGTH: 27 FT A/N: 355322 Permit to Construct Issued: 11/17/00	D1038				
System 4 : BUTANE TREATING / DEFLUORINATOR					S4-1, S7-1, S13-1, S15-14, S31-1, S34-1
VESSEL, (TREATER), BUTANE ALUMINA, A-V-26A, 200 PSIG, 550 DEG. F., DIAMETER: 4 FT; HEIGHT: 24 FT A/N: 355321 Permit to Construct Issued: 11/17/00	D1039				
VESSEL, (TREATER), BUTANE ALUMINA, A-V-26B, 200 PSIG, 550 DEG. F., DIAMETER: 4 FT; HEIGHT: 24 FT A/N: 355321 Permit to Construct Issued: 11/17/00	D1040				
System 5 : EMERGENCY ACID TRANSFER & STORAGE					S4-1, S7-2, S13-1, S15-15, S31-1, S34-1
TANK, A-V-31, EMERGENCY ACID TRANSFER / STORAGE, 40000 GALS; DIAMETER: 14 FT; LENGTH: 32 FT A/N: 355320 Permit to Construct Issued: 11/17/00	D1041	D324			71-10, 71-15

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
System 1 : AMINE GAS TREATING					S4-1, S15-2, S15-4, S31-1
TANK, FLASH, AM-V-15, RICH MDEA,, WITH AN ABSORBER SECTION, DIAMETER: 4 FT 6 IN; LENGTH: 10 FT A/N: 352881 Permit to Construct Issued: 11/17/00	D1082				204-6, 336-3
DRUM, OS-V-1, "A" DIVISION FUEL GAS MIX,, DIAMETER: 5 FT; LENGTH: 24 FT A/N: 352881 Permit to Construct Issued: 11/17/00	D1083				232-2
DRUM, FG-V-1, "C" DIVISION FUEL GAS MIX,, DIAMETER: 5 FT; LENGTH: 10 FT A/N: 352881 Permit to Construct Issued: 11/17/00	D1084				90-6, 116-1, 232-2
SUMP, AM-SU-1, AMINE, DEPTH: 8 FT; LENGTH: 10 FT; WIDTH: 10 FT A/N: 352881 Permit to Construct Issued: 11/17/00	D1085				
SUMP, AM-SU-2, AMINE, DEPTH: 9 FT; LENGTH: 6 FT; WIDTH: 6 FT A/N: 352881 Permit to Construct Issued: 11/17/00	D1086				

- * (1) Denotes RECLAIM emission factor
- (2) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5)(5A)(5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9 : TREATING/STRIPPING					
System 6 : FUEL GAS TREATING MERCAPTAN REMOVAL					S4-1, S13-1, S31-1
ABSORBER, AM-V-18A, SULFATREAT,, DIAMETER: 10 FT; HEIGHT: 29 FT A/N: 358369 Permit to Construct Issued: 11/17/00	C1078				71-4, 71-5, 182-3
ABSORBER, AM-V-18B, SULFATREAT,, DIAMETER: 10 FT; HEIGHT: 29 FT A/N: 358369 Permit to Construct Issued: 11/17/00	C1079				71-4, 71-5, 182-3
ABSORBER, AM-V-19, DISULFIDE,, DIAMETER: 2 FT; HEIGHT: 16 FT A/N: 358369 Permit to Construct Issued: 11/17/00	C1080				71-5, 182-3
VESSEL, AM-V-20, CYCLONE SEPARATOR, DIAMETER: 1 FT; HEIGHT: 4 FT A/N: 358369 Permit to Construct Issued: 11/17/00	C1081				71-5, 182-3
Process 10 : SULFUR PRODUCTION					
System 7 : SULFUR RECOVERY UNIT 60 LTD CAPACITY					S4-1, S13-2, S15- 8, S31-1
FURNACE, 6-H-101, REACTION, SULFUR, DIAMETER: 71 IN; LENGTH: 21 FT 7 IN; WITH A/N: 352861 Permit to Construct Issued: 11/17/00	D1060	D1066			182-2, 204-6

- * (1) Denotes RECLAIM emission factor
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(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
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(10) See Section J for NESHAP/MACT requirements

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10 : SULFUR PRODUCTION					
BURNER, B-601-1, HYDROGEN SULFIDE, JOHN ZINK, 5 MMBTU/HR NET					
REACTOR, 6-F-103, CLAUS CATALYTIC CONVERTER, THREE STAGES, DIAMETER: 10 FT, LENGTH: 28 FT 11 IN A/N: 352861 Permit to Construct Issued: 11/17/00	D1062				182-2, 204-6
KNOCK OUT POT, 6-F-101, AMINE ACID GAS, DIAMETER: 2 FT 6 IN, HEIGHT: 7 FT A/N: 352861 Permit to Construct Issued: 11/17/00	D1063				204-6
KNOCK OUT POT, 6-F-102, SOUR WATER STRIPPER GAS, DIAMETER: 1 FT 6 IN, HEIGHT: 7 FT 4 IN A/N: 352861 Permit to Construct Issued: 11/17/00	D1064				204-6
CONDENSER, 6-E-102, SULFUR, VENTED TO TAIL GAS UNIT A/N: 352861 Permit to Construct Issued: 11/17/00	D1065				204-6
PIT, 6-TK-101, SULFUR, WITH CARBON FILTER, DEPTH: 16 FT, LENGTH: 40 FT, WIDTH: 12 FT A/N: 352861 Permit to Construct Issued: 11/17/00	D1066	D1060			204-6

- * (1) Denotes RECLAIM emission factor
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- (5)(5A)(5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
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- (2) Denotes RECLAIM emission rate
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10 : SULFUR PRODUCTION					
EJECTOR, 6-EJ-101, AIR A/N: 352861 Permit to Construct Issued: 11/17/00	D1067				204-6
System 8 : SCOT TAIL GAS UNIT					S4-1, S13-1, S13-2, S15-8, S31-1
REACTOR, 7-F-101, HYDROGENATION, DIAMETER: 7 FT; LENGTH: 8 FT 6 IN A/N: 353409 Permit to Construct Issued: 11/17/00	C1068				204-6
REACTOR, 7-II-102, HYDROGEN GENERATOR,, DIAMETER: 4 FT; LENGTH: 9 FT WITH A/N: 353409 Permit to Construct Issued: 11/17/00 BURNER, 7-H-101, IN-LINE, JOHN ZINK, MODEL LMV TYPE V, 1.912 MMBTU/HR NET	C1069				204-6
COLUMN, 7-F-102, QUENCH, DIAMETER: 4 FT 6 IN; HEIGHT: 28 FT 6 IN A/N: 353409 Permit to Construct Issued: 11/17/00	C1071				204-6
SCRUBBER, 7-F-103, SCOT AMINE, WITH 14 TRAYS, DIAMETER: 4 FT; HEIGHT: 48 FT A/N: 353409 Permit to Construct Issued: 11/17/00	C1072	C1076			204-6

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10 : SULFUR PRODUCTION					
COLUMN, 7-F-104, SCOT AMINE REGENERATOR,, WITH 32 TRAYS, DIAMETER: 3 FT 6 IN; HEIGHT: 87 FT A/N: 353409 Permit to Construct Issued: 11/17/00	C1073				204-6
ACCUMULATOR, 7-F-105, SCOT AMINE REGENERATOR,, DIAMETER: 1 FT 6 IN; HEIGHT: 7 FT 10 IN A/N: 353409 Permit to Construct Issued: 11/17/00	C1074				
FILTER, 7-D-103, SCOT AMINE,, DIAMETER: 1 FT 4 IN; HEIGHT: 6 FT 10 IN A/N: 353409 Permit to Construct Issued: 11/17/00	C1075				
System 9 : TAIL GAS INCINERATOR					S13-2, S15-8
INCINERATOR, STG-H-3, TAIL GAS,, NATURAL GAS, PROCESS GAS, 15 MMBTU/Hr WITH A/N: 353411 Permit to Construct Issued: 11/17/00 BURNER, NATURAL GAS, 15 MMBTU/Hr	C1076	C1072	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (5); NOX: 0.602 LBS/Hr (1); SO2: 250 PPMV (8); SOX: 2.918 LBS/Hr (1); SOX: 100 PPMV (4)	63-3, 82-1, 193-2, 195-1

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SECTION II: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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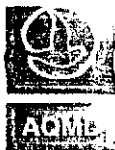
Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
System 6 : GASOLINE TRANSMIX AND MTBE UNLOADING					S31-1
UNLOADING ARM, TANK TRUCK, MTBE, WITH DRY BREAK COUPLERS, 2 TOTAL; DIAMETER: 4 IN A/N: 352892 Permit to Construct Issued: 11/17/00	D1150				
System 11 : GAS OIL AND CYCLE OIL BULK LOADING					S31-1
LOADING ARM, TANK TRUCK, DECANT OIL, HEAVY VACUUM GAS OIL, LIGHT COKER GAS OIL, LIGHT CYCLE OIL, LIGHT VACUUM GAS OIL, RAW GAS OIL, WITH DRY BREAK COUPLERS, 2 TOTAL; DIAMETER: 4 IN A/N: 352890 Permit to Construct Issued: 11/17/00	D1149				1-29, 1-30, 22-3, 67-11
System 20 : BLOOMFIELD AVENUE TANK TRUCK LOADING RACK NO. 1					S31-1
LOADING ARM, BOTTOM, TANK TRUCK, UNLEADED GASOLINE, DRY BREAK COUPLERS, WITH TWO 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352864 Permit to Construct Issued: 11/17/00	D1129	C1134 C1135		VOC: 35 MG/L GASOLINE (8) [40CFR 60 Subpart XX, 3-2-1984] ; VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT, 5-10-1996 RULE 1303(b)(2)-Offset, 5-10-1996] ; VOC: 0.08 LBS/1000 GAL ORGANIC LIQUID (5) [RULE 462, 5-14-1999]	1-24, 1-25, 57-5, 67-7

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
LOADING ARM, BOTTOM, TANK TRUCK, DIESEL FUEL, DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352864 Permit to Construct Issued: 11/17/00	D1139	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
LOADING ARM, BOTTOM, TANK TRUCK, JET FUEL (JPA), DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 2 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352864 Permit to Construct Issued: 11/17/00	D1143	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
System 21 : BLOOMFIELD AVENUE TANK TRUCK LOADING RACK NO. 2					531-1
LOADING ARM, BOTTOM, TANK TRUCK, UNLEADED GASOLINE, DRY BREAK COUPLERS, WITH TWO 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352865 Permit to Construct Issued: 11/17/00	D1130	C1134 C1135		VOC: 35 MG/L GASOLINE (8) [40CFR 60 Subpart XX,3-2-1984] ; VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996] RULE 1303(b)(2)-Offset,5-10-1996] ; VOC: 0.08 LBS/1000 GAL ORGANIC LIQUID (5) [RULE 462,5-14-1999]	1-24, 1-25, 57-5, 67-7

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
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- (2) Denotes RECLAIM emission rate
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
LOADING ARM, BOTTOM, TANK TRUCK, DIESEL FUEL, DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352865 Permit to Construct Issued: 11/17/00	D1140	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
LOADING ARM, BOTTOM, TANK TRUCK, JET FUEL (JPA), DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 2 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352865 Permit to Construct Issued: 11/17/00	D1144	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
System 22 : BLOOMFIELD AVENUE TANK TRUCK LOADING RACK NO. 3					S31-1
LOADING ARM, BOTTOM, TANK TRUCK, UNLEADED GASOLINE, DRY BREAK COUPLERS, WITH TWO 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352866 Permit to Construct Issued: 11/17/00	D1131	C1134 C1135		VOC: 35 MG/L GASOLINE (8) [40CFR 60 Subpart XX,3-2-1984] ; VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996] RULE 1303(b)(2)-Offset,5-10-1996] ; VOC: 0.08 LBS/1000 GAL ORGANIC LIQUID (5) [RULE 462,5-14-1999]	1-24, 1-25, 57-5, 67-7

- * (1) Denotes RECLAIM emission factor
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
LOADING ARM, BOTTOM, TANK TRUCK, DIESEL FUEL, DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352866 Permit to Construct Issued: 11/17/00	D1141	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
LOADING ARM, BOTTOM, TANK TRUCK, JET FUEL (JPA), DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 2 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352866 Permit to Construct Issued: 11/17/00	D1145	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
System 23 : BLOOMFIELD AVENUE TANK TRUCK LOADING RACK NO. 4					S31-1
LOADING ARM, BOTTOM, TANK TRUCK, UNLEADED GASOLINE, DRY BREAK COUPLERS, WITH TWO 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352867 Permit to Construct Issued: 11/17/00	D1132	C1134 C1135		VOC: 35 MG/L GASOLINE (8) [40CFR 60 Subpart XX,3-2-1984] ; VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996] RULE 1303(b)(2)-Offset,5-10-1996] ; VOC: 0.08 LBS/1000 GAL ORGANIC LIQUID (5) [RULE 462,5-14-1999]	1-24, 1-25, 57-5, 67-7

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
LOADING ARM, BOTTOM, TANK TRUCK, DIESEL FUEL, DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 4 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352867 Permit to Construct Issued: 11/17/00	D1142	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
LOADING ARM, BOTTOM, TANK TRUCK, JET FUEL (JPA), DRY BREAK COUPLERS, WITH 2 4-IN VAPOR RETURN LINES, 2 LOADING ARMS TOTAL, DIAMETER: 4 IN A/N: 352867 Permit to Construct Issued: 11/17/00	D1146	C1134 C1135		VOC: 0.05 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT,5-10-1996]	1-26, 1-27, 57-5, 67-7
System 24 : VRS SERVING BLOOMFIELD AVENUE BULK LOADING RACKS					
CARBON ADSORBER, NO. 1, 9 FT DIA X 8 FT HIGH, 9500 LBS A/N: 352868 Permit to Construct Issued: 11/17/00	C1134	D1129 D1130 D1131 D1132 D1139 D1140 D1141 D1142 D1143 D1144 D1145 D1146			28-4, 28-8, 40-2, 67-8, 232-1
CARBON ADSORBER, NO. 2, 9 FT DIA X 8 FT HIGH, 9500 LBS A/N: 352868 Permit to Construct Issued: 11/17/00	C1135	D1129 D1130 D1131 D1132 D1139 D1140 D1141 D1142 D1143 D1144 D1145 D1146			28-4, 28-8, 40-2, 67-8, 232-1
VESSEL, SEPARATOR, 3-PHASE, DIAMETER: 4 FT; LENGTH: 10 FT A/N: 352868 Permit to Construct Issued: 11/17/00	C1136				

- | | |
|---|--|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|--|

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11 : LOADING/UNLOADING					
COLUMN, GASOLINE, ABSORPTION, DIAMETER: 2 FT 6 IN; HEIGHT: 12 FT A/N: 352868 Permit to Construct Issued: 11/17/00	C1137				
KNOCK OUT POT, DIAMETER: 4 FT; LENGTH: 11 FT 4 IN A/N: 352868 Permit to Construct Issued: 11/17/00	C1138				
Process 12 : OIL/WATER SEPARATION					
System 4 : SLOP OIL RECOVERY					S4-1, S7-1, S13-4, S15-16, S31-1
PROCESS TANK, INTERNAL FLOATING ROOF, HEATED, TK-3010, OIL-WATER SEPARATION, SLOP OIL, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT WITH A/N: 352886 Permit to Construct Issued: 11/17/00 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE	D1042				1-31, 6-4, 71-9

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8E) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 12 : OIL/WATER SEPARATION					
PROCESS TANK, INTERNAL FLOATING ROOF, HEATED, TK-3011, OIL-WATER SEPARATION, SLOP OIL, 3000 BBL; DIAMETER: 30 FT; HEIGHT: 24 FT WITH A/N: 352886 Permit to Construct Issued: 11/17/00 FLOATING ROOF, PONTOON PRIMARY SEAL, LIQUID MOUNTED RESILIENT FOAM- FILLED SECONDARY SEAL, WIPER TYPE	D1046				1-31, 6-4, 71-9
Process 13 : STORAGE TANKS					
System 1 : FIXED ROOF STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 5015, GASOLINE, 5000 BBL; DIAMETER: 30 FT; HEIGHT: 40 FT A/N: 352893 Permit to Construct Issued: 11/17/00	D550	D620 C732			1-39
STORAGE TANK, FIXED ROOF, 10050, GASOLINE, 10000 BBL; DIAMETER: 42 FT 3 IN; HEIGHT: 40 FT A/N: 352894 Permit to Construct Issued: 11/17/00	D564	D620 C732			1-40

- * (1) Denotes RECLAIM emission factor
(2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 14 : STEAM GENERATION					
BOILER, U-B-1, KEYSTONE, LIQUIFIED PETROLEUM GAS, NATURAL GAS, REFINERY GAS, ERIE CITY IRON WORKS, 50 MMBTU/HR WITH A/N: 352879 Permit to Construct Issued: 11/17/00 BURNER, MODEL NO. FDR-CH-85-S-IRI, NATURAL GAS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 1 TOTAL: 50 MMBTU/HR	D598	S712	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5); NOX: 0.058 LBS/MMBTU (5); NOX: 0.1 LBS/MMBTU REFINERY GAS (1); NOX: 45 PPMV REFINERY GAS (7) SOX: 26.278 LBS/MMCF REFINERY GAS (1)	1-16, 12-12, 23-7, 28-7, 40-1, 67-10
BOILER, NORTH HOLMAN, NATURAL GAS, REFINERY GAS, HOLMAN WORKS BOILER, WITH OXYGEN CONTENT CONTROL, SELECTIVE NONCATALYTIC REDUCTION FOR NOX, 40 MMBTU/HR WITH A/N: 352880 Permit to Construct Issued: 11/17/00 BURNER, NATURAL GAS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 1 TOTAL: 40 MMBTU/HR UREA INJECTION SYSTEM	D601	S875	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 2000 PPMV AT 15 MINS. REFINERY GAS (5A); NOX: 0.045 LBS/MMBTU REFINERY GAS (1); NOX: 40 PPMV AT 15 MINS. REFINERY GAS (5); SOX: 26.278 LBS/MMCF REFINERY GAS (1)	23-2, 28-1, 313-3, 315-1

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 14 : STEAM GENERATION					
STACK, DIAMETER: 3 FT 6 IN; HEIGHT: 40 FT A/N: 352880 Permit to Construct Issued: 11/17/00	S875	D601			
BOILER, SOUTH HOLMAN, LIQUIFIED PETROLEUM GAS, REFINERY GAS, WITH LOW NOX BURNER, 100 MMBTU/HR WITH A/N: 349068 † Permit to Construct Issued: 01/13/99 BURNER, LIQUIFIED PETROLEUM GAS, REFINERY GAS, JOHN ZINK, WITH LOW NOX BURNER, 100 MMBTU/HR	D761	C763	NOX: MAJOR SOURCE**; SOX: MAJOR SOURCE**	CO: 6.1 LBS/HR REFINERY GAS (5); NOX: 0.012 LBS/MMBTU (4); NOX: 9 PPMV (4); NOX: 0.1 LBS/MMBTU REFINERY GAS (1) PM: 1 LBS/HR REFINERY GAS (5); ROG: 0.67 LBS/HR REFINERY GAS (5); SOX: 16.9 LBS/MMCF (4); SOX: 26.278 LBS/MMCF REFINERY GAS (1) SOX: 1.29 LBS/HR REFINERY GAS (4)	28-2, 40-1, 63-1, 313-1, 313-3, 315-1
SELECTIVE CATALYTIC REDUCTION WITH A/N: 348313 † Permit to Construct Issued: 01/13/99 AMMONIA INJECTION	C763	D761 S816		NH3: 20 PPMV (5)	193-1

- * (1) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5)(5A)(5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 14 : STEAM GENERATION					
STACK, DIAMETER: 4 FT 6 IN; HEIGHT: 35 FT A/N: 349068 † Permit to Construct Issued: 01/13/99	S816	C763			
Process 15 : MISCELLANEOUS					
System 2 : C4/C5 VAPORIZER UNIT					
KNOCK OUT POT, BFW-V-6, PENTANE, DIAMETER: 4 FT; HEIGHT: 6 FT A/N: 348307 † Permit to Construct Issued: 01/13/99	D757				
EVAPORATOR, BFW-E-1, PENTANE A/N: 348307 † Permit to Construct Issued: 01/13/99	D758				
System 6 : SATURATED GAS RECOVERY UNIT					S4-1, S7-1, S13-3, S15-17, S31-1
VESSEL, SGR-V-104, COMPRESSOR FIRST STAGE DISCHARGE SCRUBBER A/N: 352882 Permit to Construct Issued: 11/17/00	D1092				
VESSEL, SGR-V-115A, DEHYDRATOR BED, DIAMETER: 3 FT; HEIGHT: 20 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1093				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : MISCELLANEOUS					
VESSEL, SGR-V-115B, DEHYDRATOR BED, DIAMETER: 3 FT, HEIGHT: 20 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1094				
VESSEL, SGR-V-101, SUCTION SCRUBBER A/N: 352882 Permit to Construct Issued: 11/17/00	D1095				
VESSEL, SGR-V-106, COMPRESSOR SECOND STAGE DISCHARGE SCRUBBER A/N: 352882 Permit to Construct Issued: 11/17/00	D1096				
VESSEL, SGR-V-502, AMINE CONTACTOR AFTER-SCRUBBER A/N: 352882 Permit to Construct Issued: 11/17/00	D1097				
VESSEL, SGR-V-107, LIQUID FEED SURGE DRUM A/N: 352882 Permit to Construct Issued: 11/17/00	D1098				
VESSEL, SGR-V-122, COLD SEPARATOR A/N: 352882 Permit to Construct Issued: 11/17/00	D1099				
VESSEL, SGR-V-126, DEETHANIZER REFLUX ACCUMULATOR A/N: 352882 Permit to Construct Issued: 11/17/00	D1100				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : MISCELLANEOUS					
VESSEL, SGR-V-146, REFRIGERANT INTERSTAGE FLASH ECONOMIZER, DIAMETER: 2 FT 6 IN; HEIGHT: 8 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1101				
VESSEL, SGR-V-148, CHILLER SURGE DRUM A/N: 352882 Permit to Construct Issued: 11/17/00	D1102				
VESSEL, SGR-V-140, REFRIGERANT COMPRESSOR SUCTION DRUM, DIAMETER: 3 FT; HEIGHT: 8 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1103				
VESSEL, SGR-V-145, REFRIGERANT SURGE TANK, DIAMETER: 3 FT; HEIGHT: 10 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1104				
VESSEL, SGR-V-120, REGENERATION GAS DRUM A/N: 352882 Permit to Construct Issued: 11/17/00	D1105				
VESSEL, LX-V-8, REFRIGERATION RECEIVER, DIAMETER: 1 FT 6 IN; HEIGHT: 10 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1106				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : MISCELLANEOUS					
TOWER, SGR-T-108, STABILIZER, DIAMETER: 2 FT; HEIGHT: 60 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1107				
TOWER, SGR-T-501, AMINE CONTACTOR, DIAMETER: 3 FT; HEIGHT: 5 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1108				
TOWER, SGR-T-123, DEETHANIZER COLUMN, DIAMETER: 2 FT; HEIGHT: 50 FT A/N: 352882 Permit to Construct Issued: 11/17/00	D1109				
FILTER, SGR-F-116, DRY GAS A/N: 352882 Permit to Construct Issued: 11/17/00	D1110				
FILTER, SGR-F-111, STABILIZER FEED FILTER A/N: 352882 Permit to Construct Issued: 11/17/00	D1111				
FILTER, SGR-F-114, FEED A/N: 352882 Permit to Construct Issued: 11/17/00	D1112				
COMPRESSOR, VR-C-1A, VAPOR RECOVERY, 40 HP A/N: 352882 Permit to Construct Issued: 11/17/00	D1113				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15 : MISCELLANEOUS					
COMPRESSOR, VR-C-1B, VAPOR RECOVERY, 40 HP A/N: 352882 Permit to Construct Issued: 11/17/00	D1114				
COMPRESSOR, VR-C-2, VAPOR RECOVERY, 50 HP A/N: 352882 Permit to Construct Issued: 11/17/00	D1115				
COMPRESSOR, SGR-C-102, FEED GAS BOOSTER, 139 HP A/N: 352882 Permit to Construct Issued: 11/17/00	D1116				
COMPRESSOR, SGR-C-141, REFRIGERANT A/N: 352882 Permit to Construct Issued: 11/17/00	D1117				
Process 17 : AIR POLLUTION CONTROL					
System 2 : EMERGENCY FLARE RELIEF					S18-2
KNOCK OUT POT, FL-V-1 A/N: 357070 Permit to Construct Issued: 11/17/00	D625				
FLARE, GROUND FLARE, JOHN ZINK, FOUR STAGE SYSTEM WITH 116 BURNERS,, PROCESS GAS, EQUIPPED WITH THREE STAGE LINEAR RELIEF GAS OXIDIZER WITH 48 BURNERS,, DIAMETER: 32 FT 6 IN; HEIGHT: 125 FT WITH A/N: 357070 Permit to Construct Issued: 11/17/00	C626				12-6, 71-6

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|--|---|
| <p>*(1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|--|---|

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION II: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : AIR POLLUTION CONTROL					
BURNER, STEAM ASSISTED, CAPACITY 350,000 LBS/HR, 164 BURNERS TOTAL					
System 3 : VAPOR RECOVERY SYSTEM NO. 3					
POT, COMPRESSOR SUCTION, 3VR- V2, DIAMETER: 2 FT; HEIGHT: 5 FT A/N: 352900 Permit to Construct Issued: 11/17/00	D620	D449 D451 D524 D526 D527 D541 D542 D543 D550 D551 D552 D553 D554 D555 D556 D557 D558 D564 D730 D736			1-14, 71-2, 246-1
VESSEL, STEAM EDUCTOR, EMERGENCY BACKUP TO VRC-3 AND VRC-3A A/N: 352900 Permit to Construct Issued: 11/17/00	C732	D449 D451 D524 D526 D527 D541 D542 D543 D550 D551 D552 D553 D554 D555 D556 D557 D558 D564 D730 D736			1-14, 71-2, 246-1

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 17 : AIR POLLUTION CONTROL					
System 5 : SELECTIVE CATALYTIC REDUCTION (SCR)					
SELECTIVE CATALYTIC REDUCTION, DC-H-1C, COKER CHARGE, HITACHI ZOSEN CERAMIC HONEYCOMB NOXNON CATALYST, SPACE VELOCITY - 10,800/HR; CATALYST VOLUME - 63.6 CU.FT., HEIGHT: 2 FT 10 IN; LENGTH: 3 FT 8 IN; A/N: 352870 Permit to Construct Issued: 11/17/00 AMMONIA INJECTION, SYSTEM WITH 3 FT DIA. X 6.5 FT H. 25% AQ. NH3 TANK, WITH <1HP PUMP, A 10-15 KW NH3 VAPORIZER, 1 HP AIR BLOWER NH3, INJECTION GRID, PIPING & INSTRU	C1089	D1087 S1091		NH3: 9 PPMV NATURAL GAS (4); NOX: 5 PPMV NATURAL GAS (4)	12-8, 12-9, 12- 11, 67-9, 71-8, 99-1, 99-2, 171-2
Process 19 : ISOMERIZATION					
System 1 : BENZENE SATURATION/ISOMERIZATION					S15-2
POT, MAKEUP COMPRESSOR SUCTION, BI-V-1, DIAMETER: 2 FT; HEIGHT: 6 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D782				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
KNOCK OUT POT, BI-V-2, MAKEUP GAS, DIAMETER: 2 FT; HEIGHT: 6 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D783				
VESSEL, TREATER, ZINC OXIDE, BI-V-3, DIAMETER: 2 FT; HEIGHT: 11 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D784				
TANK, SURGE, BI-V-4, FEED, DIAMETER: 6 FT; HEIGHT: 18 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D785				
VESSEL, SULFUR GUARD BED, BI-V-5, DIAMETER: 3 FT 6 IN; LENGTH: 13 FT 6 IN A/N: 348319 † Permit to Construct Issued: 01/13/99	D786				
SATURATOR, BI-V-6, DIAMETER: 6 FT; HEIGHT: 18 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D787				
DRYER, BI-V-7 A, MAKEUP GAS, DIAMETER: 1 FT 6 IN; HEIGHT: 17 FT 6 IN A/N: 348319 † Permit to Construct Issued: 01/13/99	D788				
DRYER, BI-V-7 B, MAKEUP GAS, DIAMETER: 1 FT 6 IN; HEIGHT: 17 FT 6 IN A/N: 348319 † Permit to Construct Issued: 01/13/99	D789				

- * (1) Denotes RECLAIM emission factor (2) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

† This permit to construct was issued to the previous operator at a prior date, the equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
DRYER, BI-V-8 A, FEED GAS, DIAMETER: 3 FT; HEIGHT: 16 FT 6 IN A/N: 348319 † Permit to Construct Issued: 01/13/99	D790				
DRYER, BI-V-8 B, FEED GAS, DIAMETER: 3 FT; HEIGHT: 16 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D791				
DRUM, CHLORIDE INJECTION , BI-V-9, DIAMETER: 4 FT; HEIGHT: 12 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D792				
REACTOR, SATURATION, BI-V-10, DIAMETER: 3 FT; HEIGHT: 19 FT 6 IN A/N: 348319 † Permit to Construct Issued: 01/13/99	D793				
REACTOR, ISOMERIZATION, BI-V-11 A, DIAMETER: 4 FT 6 IN; HEIGHT: 37 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D794				
REACTOR, ISOMERIZATION, BI-V-11 B, DIAMETER: 4 FT 6 IN; HEIGHT: 37 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D795				
COLUMN, STABILIZER , BI-V-12, DIAMETER: 4 FT 6 IN; HEIGHT: 79 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D796				

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements
- ** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.
- † This permit to construct was issued to the previous operator at a prior date. the equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
ACCUMULATOR, BI-V-13, STABILIZER OVERHEAD, DIAMETER: 4 FT; LENGTH: 12 FT A/N: 348319 † Permit to Construct Issued: 01/13/99	D797				
HEATER, REGENERANT SUPERHEATER ELECTRIC, BI-II-1 A/N: 348319 † Permit to Construct Issued: 01/13/99	D799				
EVAPORATOR, REGENERANT, BI-E-13 A/N: 348319 † Permit to Construct Issued: 01/13/99	D803				
COMPRESSOR, , MAKE-UP GAS, BI-C-1, TWO STAGE, CENTRIFUGAL, WITH A 150HP MOTOR AND MECHANICAL SEAL A/N: 348319 † Permit to Construct Issued: 01/13/99	D980				
SCRUBBER, (NET GAS), BI-V-14 A/N: 348319 † Permit to Construct Issued: 01/13/99	D981				
System 2 : BUTANE ISOMERIZATION					S4-1, S7-1, S15-18, S31-1
VESSEL, (SETTLER), I-V-30, PROPANE-CAUSTIC, DIAMETER: 6 FT 6 IN; LENGTH: 15 FT A/N: 352885 Permit to Construct Issued: 11/17/00	D1118				23-11

- * (1) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

† This permit to construct was issued to the previous operator at a prior date. the equipment was constructed and the permit was subsequently transferred to this operator.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 19 : ISOMERIZATION					
VESSEL, (COALESCER), I-V-31, PROPANE-CAUSTIC, DIAMETER: 1 FT 4 IN; LENGTH: 8 FT A/N: 352885 Permit to Construct Issued: 11/17/00	D1119				23-11
DRYER, I-V-32A, PROPANE, DIAMETER: 2 FT; LENGTH: 10 FT A/N: 352885 Permit to Construct Issued: 11/17/00	D1120				23-11
DRYER, I-V-32B, PROPANE, DIAMETER: 2 FT; LENGTH: 10 FT A/N: 352885 Permit to Construct Issued: 11/17/00	D1121				23-11
FILTER, I-V-37, PROPANE, DIAMETER: 10.75 IN; LENGTH: 6 FT 4 IN A/N: 352885 Permit to Construct Issued: 11/17/00	D1122				23-11
FILTER, (REGENERATION), I-V-40, DIAMETER: 6.625 IN; LENGTH: 5 FT 5 IN A/N: 352885 Permit to Construct Issued: 11/17/00	D1123				23-11
VESSEL, (SETTLER), I-V-45, PROPANE-WATER, DIAMETER: 2 FT 6 IN; LENGTH: 8 FT A/N: 352885 Permit to Construct Issued: 11/17/00	D1124				23-11

- | | |
|---|---|
| <p>* (1) Denotes RECLAIM emission factor</p> <p>(3) Denotes RECLAIM concentration limit</p> <p>(5)(5A)(5B) Denotes command and control emission limit</p> <p>(7) Denotes NSR applicability limit</p> <p>(9) See App B for Emission Limits</p> | <p>(2) Denotes RECLAIM emission rate</p> <p>(4) Denotes BACT emission limit</p> <p>(6) Denotes air toxic control rule limit</p> <p>(8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)</p> <p>(10) See Section J for NESHAP/MACT requirements</p> |
|---|---|

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

† This permit to construct was issued to the previous operator at a prior date. the equipment was constructed and the permit was subsequently transferred to this operator.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

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**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION H: DEVICE ID INDEX

The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

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D61	2	1	4
D69	3	1	6
D70	4	1	6
D169	6	4	4
D170	7	4	4
D277	9	7	2
D282	10	8	1
D309	10	8	1
D324	10	8	1
D550	24	13	1
D564	24	13	1
D598	25	14	0
D601	25	14	0
D620	32	17	3
D625	31	17	2
C626	31	17	2
C732	32	17	3
D743	3	1	4
D756	8	6	1
D757	27	15	2
D758	27	15	2
D761	26	14	0
C763	26	14	0
D774	8	5	5
D775	8	5	5
D776	8	5	5
D782	33	19	1
D783	34	19	1
D784	34	19	1
D785	34	19	1
D786	34	19	1
D787	34	19	1
D788	34	19	1
D789	34	19	1



**FACILITY PERMIT TO OPERATE
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SECTION H: DEVICE ID INDEX

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D791	35	19	1
D792	35	19	1
D793	35	19	1
D794	35	19	1
D795	35	19	1
D796	35	19	1
D797	36	19	1
D799	36	19	1
D803	36	19	1
D813	1	1	1
S816	27	14	0
S875	26	14	0
D903	1	1	2
D905	5	3	4
D907	10	8	1
S965	2	1	2
D980	36	19	1
D981	36	19	1
D1031	10	8	1
D1032	10	8	1
D1033	11	8	1
D1034	11	8	1
D1035	11	8	1
D1036	11	8	1
D1037	11	8	3
D1038	12	8	3
D1039	12	8	4
D1040	12	8	4
D1041	12	8	5
D1042	23	12	4
D1046	24	12	4
D1050	9	7	1
D1051	9	7	1
D1052	5	3	6
D1053	6	3	6



**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION H: DEVICE ID INDEX

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D1062	15	10	7
D1063	15	10	7
D1064	15	10	7
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C1068	16	10	8
C1069	16	10	8
C1071	16	10	8
C1072	16	10	8
C1073	17	10	8
C1074	17	10	8
C1075	17	10	8
C1076	17	10	9
C1078	14	9	6
C1079	14	9	6
C1080	14	9	6
C1081	14	9	6
D1082	13	9	1
D1083	13	9	1
D1084	13	9	1
D1085	13	9	1
D1086	13	9	1
D1087	5	2	2
C1089	33	17	5
S1091	5	2	2
D1092	27	15	6
D1093	27	15	6
D1094	28	15	6
D1095	28	15	6
D1096	28	15	6
D1097	28	15	6
D1098	28	15	6



**FACILITY PERMIT TO OPERATE
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SECTION H: DEVICE ID INDEX

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D1100	28	15	6
D1101	29	15	6
D1102	29	15	6
D1103	29	15	6
D1104	29	15	6
D1105	29	15	6
D1106	29	15	6
D1107	30	15	6
D1108	30	15	6
D1109	30	15	6
D1110	30	15	6
D1111	30	15	6
D1112	30	15	6
D1113	30	15	6
D1114	31	15	6
D1115	31	15	6
D1116	31	15	6
D1117	31	15	6
D1118	36	19	2
D1119	37	19	2
D1120	37	19	2
D1121	37	19	2
D1122	37	19	2
D1123	37	19	2
D1124	37	19	2
D1126	8	6	1
D1129	18	11	20
D1130	19	11	21
D1131	20	11	22
D1132	21	11	23
C1134	22	11	24
C1135	22	11	24
C1136	22	11	24
C1137	23	11	24
C1138	23	11	24



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21865 East Copley Drive, Diamond Bar, CA 91765

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FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: DEVICE ID INDEX

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D1140	20	11	21
D1141	21	11	22
D1142	22	11	23
D1143	19	11	20
D1144	20	11	21
D1145	21	11	22
D1146	22	11	23
D1149	18	11	11
D1150	18	11	6



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F2-1. The operator shall limit emissions from this facility as follows

CONTAMINANT	EMISSIONS LIMIT
Combination of Volatile Hazardous Air Pollutants (VHAPs)	Less than 25 TONS IN ANY ONE YEAR
Single Volatile Hazardous Air Pollutant (VHAP)	Less than 10 TONS IN ANY ONE YEAR

[40CFR 63 Subpart CC, 8-18-1995; 40CFR 63 Subpart R, 12-14-1994]

F5-1. The following conditions shall apply to all devices subject to Regulation XX - RECLAIM at this facility:

1. Devices subject to this condition shall not be operated unless Reclaim Trading Credits (RTC) for NOX and SOX are procured and deposited to the allocation account of this facility in an amount not less than the amount of allocations initially issued to Powerline Oil Co. (ID 800103) for the compliance years 1998 (683,837 LBS for NOX and 469,930 LBS for SOX) and 1999 (583,835 LBS for NOX and 402,588 LBS for SOX).
2. The operator may be allowed to procure a lesser amount of RTC if it can be demonstrated in writing to the satisfaction of the Executive Officer, and thereupon approved in writing, that the amount, at a minimum, is adequate to offset the expected emissions within the 12 months following the start of operation.
3. The operator shall have the CEMS provided for any equipment subject to this condition certified in accordance with RECLAIM rule requirements within 12 months of any operation (including testing) of the equipment. Failure to have the CEMS certified within the 12 month deadline shall result in determining emissions in accordance with missing data procedures under Appendix A of Rules 2011 and 2012, where applicable.

F5-2. The following conditions shall apply to all heaters and boilers at this facility:

All heaters and boilers with maximum rated capacity of greater than 40 mmBtu/hr, as specified in this permit, shall be subject to Rule 1109 and a refinery-wide rate nitrogen oxides emission limit of 0.03 lb/mmBtu or less. These heaters and boilers shall be subject to this rule until the facility demonstrated to the satisfaction of the Executive Officer compliance with all monitoring and reporting requirements of Rules 2011 and 2012.

All heaters and boilers with maximum rated capacity between 5 mmBtu/hr or greater and 40 mmBtu/hr or less shall be subject to Rule 1146. These heaters and boilers shall be subject to this rule until the facility demonstrated to the satisfaction of the Executive Officer compliance with all monitoring and reporting requirements of Rules 2011 and 2012.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- F8-1. The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Statement of Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the AQMD Certified Final Environmental Impact Report dated 27-jan-1995 for this facility.
- F8-2. The operator shall comply with all applicable mitigation measures stipulated in the "Statement of Findings, Overriding Considerations, and Mitigation Monitoring Plan" document which is part of the City of Santa Fe Springs City Council Certified Final Environmental Impact Report dated 27-jul-2000 for this facility.
- F14-1. The operator shall not use liquid fuel containing sulfur compounds in excess of 0.05 percent by weight.
- F16-1. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

In order to qualify for the exemption from 40 CFR63 Subpart R, Cenco shall document and record total facility HAP emissions. The findings shall be submitted and approved by EPA prior to issuance of the final Permit to Operate for the gasoline loading racks

[40CFR 63 Subpart CC, 8-18-1995; 40CFR 63 Subpart R, 2-28-1997]

- F24-1. Accidental release prevention requirements of Section 112(r)(7):
 - a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).
 - b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- F25-1. The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/Title V permit issued by the AQMD pursuant to Rule 201 - Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

- (a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser, and shell and tube exchanger)
- (b) In-line Mixer
- (c) Pump
- (d) Knockout Pot - Compressor inlet (immediate inlet) and interstage
- (e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

SYSTEM CONDITIONS



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- S4-1. The following condition(s) shall apply to all affected devices listed under Section H of this system for fugitive emissions of volatile organic compounds (VOC):

All open-ended valves shall be equipped with cap, blind flange, plug, or a second valve.

All pressure relief valves shall be connected to closed vent system or equipped with rupture disc.

All process drains shall be equipped with water seal, or a closed vent system and control device complying with the requirements of 40CFR60 Subpart QQQ Section 60.692-5.

All sampling connections shall be closed-purge, closed-loop, or closed-vent system.

All new connections for gas/vapor and light liquid service, including flanges and fittings, shall not emit fugitive VOC in excess of 500 ppmv, measured by USEPA Method 21.

[Systems subject to this condition : Process 3, System 6; Process 4, System 8; Process 6, System 1; Process 7, System 1; Process 8, System 1 , 3 , 4 , 5; Process 9, System 1 , 6; Process 10, System 7 , 8; Process 12, System 4; Process 15, System 6; Process 19, System 2]

- S7-1. The following conditions shall apply to all refinery operation and related devices from this system:

Final drawings and/or specifications of the equipment installed/constructed, including material balances and process flow diagrams, shall be submitted to the District within 60 days prior to the operation of the equipment.

[Systems subject to this condition : Process 3, System 6; Process 7, System 1; Process 8, System 1 , 3 , 4; Process 12, System 4; Process 15, System 6; Process 19, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S7-2. The following conditions shall apply to all refinery operation and related devices from this system:

Final drawings and/or specifications of the equipment installed/constructed, including material balances and process flow diagrams, shall be submitted to the District within 60 days prior to the operation of the equipment.

This system shall be capable of being remotely activated to transfer all the hydrofluoric (HF) acid inventory for the alkylation unit to a temporary storage tank in about 10 minutes in the event of acid leak to atmosphere. This acid evacuation system shall be vented to a relief gas scrubber prior to processing in the refinery flare system.

The modified HF acid storage tank shall be operated under a closed system and shall have a vent connection to a vapor recovery system.

[Systems subject to this condition : Process 8, System 5]

S13-1. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	40CFR60, SUBPART	GGG

[Systems subject to this condition : Process 8, System 3 , 4 , 5; Process 9, System 6; Process 10, System 8]

S13-2. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

[Systems subject to this condition : Process 10, System 7 , 8 , 9]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S13-3. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	District Rule	1176
ROG	40CFR60, SUBPART	GGG
ROG	40CFR60, SUBPART	QQQ

[Systems subject to this condition : Process 3, System 6; Process 15, System 6]

S13-4. All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	District Rule	1176
ROG	40CFR60, SUBPART	GGG
ROG	40CFR60, SUBPART	QQQ
ROG	District Rule	463

[Systems subject to this condition : Process 12, System 4]

S15-1. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to the amine gas treating system.

This process/system shall not be operated unless the amine gas treating system is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 4, System 1 , 3 , 5]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S15-2. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

This process/system shall not be operated unless the blowdown flare is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 1, System 1 , 3 , 5; Process 2, System 1; Process 3, System 1 , 4; Process 4, System 1 , 3 , 5; Process 5, System 1 , 3 , 5; Process 9, System 1 , 2 , 3 , 4 , 5; Process 10, System 1 , 2; Process 11, System 4; Process 15, System 3; Process 19, System 1]

S15-3. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to a tail gas unit.

This process/system shall not be operated unless the Stretford solution treating system of the tail gas unit is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 10, System 1 , 2]

S15-4. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to the sulfur recovery system.

This process/system shall not be operated unless the sulfur recovery system is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 9, System 1 , 4]

S15-5. The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gases shall be directed to a caustic scrubber connected to a Stretford cooling tower.

This process/system shall not be operated unless the caustic scrubber and Stretford cooling tower are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 10, System 4]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION II: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S15-6. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases except PRVs in Hydrogen gas service shall be directed to a blowdown flare system (P17, S2) which is in full use and has a valid permit to receive vent gases from this system.

This process/system shall not be operated unless the blowdown flare is in full use and has a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 6, System 1]

S15-8. The vent gases from all affected devices of this process/system shall be vented as follows:

All tail gas from the sulfur recovery unit(s) shall be vented to the tail gas unit(s) at all times except during emergency as regulated under Rule 118. All vapor from the sulfur pit shall be vented to the Claus Reaction Furnace.

This process/system shall not be operated unless the tail gas unit and the tail gas incinerator are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 10, System 7 , 8 , 9]

S15-10. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All sour gases shall be directed to the amine gas treating system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 4, System 8; Process 7, System 1]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S15-11. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All sour gases shall be directed to the sour gas treating unit(s).

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 3, System 6]

S15-12. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 1]

S15-13. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 3]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S15-14. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 4]

S15-15. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 8, System 5]

S15-16. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 12, System 4]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S15-17. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 15, System 6]

S15-18. The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to a blowdown flare system.

All vent gases under normal operating conditions shall be directed to a vapor recovery system.

This process/system shall not be operated unless the associated air pollution control systems are in full use and have a valid permit to receive vent gases from this system.

[Systems subject to this condition : Process 19, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S18-2. All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Crude Distillation (Process: 1, System: 1, 3, and 5)

Coking and Residual Conditioning (Process: 2, System: 1 and 3)

Hydrotreating [Device D1056 shall not be vented except during emergency relief, startup, or shutdown] (Process: 4, System: 1, 3, 5, 7, and 8)

FCCU [Devices D1052, D1053, and D1054 shall not be vented except during emergency relief, startup, or shutdown] (Process: 3, System: 1, 4, 5, and 6)

Catalytic Reforming (Process: 5, System: 1, 3, and 5)

Hydrogen Production [Devices D1126 shall not be vented except during emergency relief, startup, or shutdown] (Process: 6, System: 1)

Alkylation and Polymerization [Devices D309, D1031, D1032, D1033, D1034, D1035, D1036, D1037, and D1038 shall not be vented except during emergency relief, startup, or shutdown] (Process: 8, System: 1, 3, and 4)

Treating/Stripping [Devices D1082, D1085, and D1086 shall not be vented except during emergency relief, startup, or shutdown] (Process: 9, System: 1, 2, 3, 4, 5, and 6)

Isomerization [Devices D1118, D1119, D1122, D1123, and D1124 shall not be vented except during emergency relief, startup, or shutdown] (Process: 19, System: 1 and 2)

Sulfur Production [emergency relief only] (Process: 10, System: 1, 2, 3, 7, and 8)

Hydrocracking Unit (Process: 7, System: 1)

Saturated Gas Recovery Unit [emergency relief only] (Process: 15, System: 6)

JP-5 Treater (Process: 15, System: 3)

[Systems subject to this condition : Process 17, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

S31-1. The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 352861 352864 352865 352866 352867 352881 352882 352885 352886 352887 352890 352892 353375 353406 353408 353409 353412 355320 355321 355322 358369:

All valves shall be bellows seal valves except in the following applications: valves in heavy liquid service, control valves, instrument piping/tubing valves, valves requiring torsional stem motion, situations where valve failure could pose safety hazard (e.g., drain valves with stems in the horizontal position), retrofit/special application valves with space limitation, and valves not commercially available (e.g., valves larger than 8 inches, valves larger than 2 inches that require special alloys or connectors, etc.). The District shall approve all exceptions to this requirement.

All valves and new major components shall be physically identified in the field with special marking that distinguish the components from non-BACT components. Additionally, all new components shall be identified as BACT components in the records.

The operator shall provide the following information to the District no later than 60 days after initial startup of the equipment in this system:

(a) Process and instrumentation diagrams (or some other equivalent District-approved diagrams) that identify all valves. Along with the diagrams, the operator shall provide a listing of all valves categorized by location, type, size, accessibility and service; and,

(b) A recalculation of fugitive emissions based on actual fugitive components installed and removed from service. All valves shall be categorized by size and service. The operator shall submit a listing of all non-bellows seal valves categorized by tag number, type, size, body material, service, operating temperature, operating pressure and reason(s) why bellows seal valves were not used.

All non-bellows seal valves shall be inspected monthly using EPA Method 21. The operator may begin quarterly inspections, upon District approval, after two consecutive monthly inspections in which only two percent or less of non-bellows seal valves are found to be leaking above 500 ppmv.

The leak rate from non-bellows seal valves and other non-valve fugitive components shall not exceed 500 ppmv. A leak rate greater than 500 ppmv, but less than or equal to 1,000 ppmv, shall be repaired within 14 calendar days after detection of the leak.

[Systems subject to this condition : Process 3, System 6; Process 4, System 8; Process 6, System 1; Process 7, System 1; Process 8, System 1, 3, 4, 5; Process 9, System 1, 6; Process 10, System 7, 8; Process 11, System 6, 11, 20, 21, 22, 23; Process 12, System 4; Process 15, System 6; Process 19, System 2]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- S34-1. A remote terminal unit (RTU), which has been approved by the Executive Officer, shall be installed at least 60 days prior to the startup of this unit. The RTU shall be operated and maintained to continuously monitor and record signals generated by all hydrofluoric acid sensors. This RTU shall be compatible with the District's Hydrofluoric Acid Emergency Monitoring Central Station (HF-CS) in such a way that the data contained in the RTU and real time outputs of the sensors can be displayed remotely by the HF-CS. Each hydrofluoric sensor shall be calibrated monthly. Calibration reports shall be generated and submitted to the District within 15 days of performing the calibration.

The RTU shall be operated and maintained to provide display of both real time and historical data generated by each of the hydrofluoric acid sensors. Trends of historical data shall also be generated, recorded, and displayed by the RTU. The RTU shall be operated such that it can be accessed remotely by the HF-CS so that the HF-CS can display all information available at the RTU. The RTU shall also transmit and record alarm messages to the HF-CS whenever an alarm status is identified at any hydrofluoric acid sensor. An alarm status shall be triggered whenever any of the following happens:

- Any sensor detects a hydrofluoric acid concentration of 6 PPM or more, or
- Any sensor fails to generate any expected signal, is put off-line or is shutdown.

The alarm message shall be formatted as specified by the Executive Officer and shall contain all parameters as specified by the Executive Officer. At a minimum, the RTU shall contain data collected during the past 365 days. Sensor and alarm data for the past two years shall be kept at the site and made available upon request from the Executive Officer or his representatives.

This condition shall not apply during hydrofluoric acid sensor or RTU breakdown if all of the requirements stated below are met:

- The breakdown did not result from operator error, neglect, improper operation or poor maintenance.
- Steps are immediately taken to repair or rectify the condition causing the breakdown within 24 hours or other time period approved by the Executive Officer.
- The District Central Station or the Executive Officer is notified of the breakdown within 8 hours of its occurrence.

This condition shall not apply during routine quarterly maintenance of the affected equipment, with the prior approval of the Executive Officer

[Systems subject to this condition : Process 8, System 1 , 3 , 4 , 5]

DEVICE CONDITIONS



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 1-14. The operator shall limit the operation to no more than 3 in any one year.

For the purpose of this condition, operation shall be defined as degassing of the tanks served by these devices.

[Devices subject to this condition : D620, C732]

- 1-15. The operator shall limit the firing rate to no more than 52 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D36]

- 1-16. The operator shall limit the firing rate to no more than 50 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D598, D1087]

- 1-17. The operator shall limit the firing rate to no more than 10 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D169]

- 1-18. The operator shall limit the firing rate to no more than 49 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D70]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION II: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 1-19. The operator shall limit the firing rate to no more than 65 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D69]

- 1-20. The operator shall limit the firing rate to no more than 49.5 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D277]

- 1-21. The operator shall limit the firing rate to no more than 46 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D60, D61]

- 1-22. The operator shall limit the firing rate to no more than 47.5 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D743]

- 1-23. The operator shall limit the firing rate to no more than 12 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as energy or heat input to the equipment combustion chamber based on the higher heating value (HHV) of the fuel gas used.

[Devices subject to this condition : D170]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 1-24. The operator shall limit the loading rate to no more than $1.71429e+06$ gallon(s) per day.

For the purpose of this condition, loading rate shall be defined as gasoline loading. The limit shall apply to the total combined loading rate for all gasoline loading arms, D1129, D1130, D1131, D1132.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D1129, D1130, D1131, D1132]

- 1-25. The operator shall limit the loading rate to no more than $3.15e+07$ gallon(s) per month.

For the purpose of this condition, loading rate shall be defined as gasoline loading. The limit shall apply to the total combined loading rate for all gasoline loading arms, D1129, D1130, D1131, and D1132.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1129, D1130, D1131, D1132]

- 1-26. The operator shall limit the loading rate to no more than $1.64572e+06$ gallon(s) per day.

For the purpose of this condition, loading rate shall be defined as the combined diesel and Jet A loading. The limit shall apply to the total combined loading rate for all diesel and Jet-A loading arms, D1139, D1140, D1141, D1142, D1143, D1144, D1145, and D1146.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D1139, D1140, D1141, D1142, D1143, D1144, D1145, D1146]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 1-27. The operator shall limit the loading rate to no more than $3.024e+07$ gallon(s) per month.

For the purpose of this condition, loading rate shall be defined as the combined diesel and Jet-A loading. The limit shall apply to the total combined loading rate for all diesel and Jet-A loading arms, D1139, D1140, D1141, D1142, D1143, D1144, D1145, and D1146.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1139, D1140, D1141, D1142, D1143, D1144, D1145, D1146]

- 1-28. The operator shall limit the duration of startup or shutdown to no more than 24 hour(s).

The operator shall not be subject to the NO_x and NH₃ emission limits specified for this equipment during refractory dryout, startup or shutdown.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

This condition shall not apply to refractory dryout operation which is allowed for a duration of up to 31 hours.

[Devices subject to this condition : D1087]

- 1-29. The operator shall limit the loading rate to no more than 18900 gallon(s) per day.

For the purpose of this condition, loading rate shall be defined as the combined Light Vacuum and Light Coker Gas Oil (LVGO and LCGO) loading.

The purpose(s) of this condition is to insure emissions remain below 1 lbs/day.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1149]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 1-30. The operator shall limit the loading rate to no more than 86100 gallon(s) per day.

For the purpose of this condition, loading rate shall be defined as the combined Light Cycle Oil (LCO), Decanted Oil, Heavy Vacuum Gas Oil (HVGO), and Raw Gas Oil loading.

The purpose(s) of this condition is to insure emissions remain below 1 lb/day.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D1149]

- 1-31. The operator shall limit the throughput to no more than $1.5e+06$ gallon(s) in any one calendar month.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the slop oil tank, in gallons per day. The flow meter shall be connected to a recorder.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D1042, D1046]

- 1-39. The operator shall limit the throughput to no more than 52500 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D550]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 1-40. The operator shall limit the throughput to no more than 105000 barrel(s) in any one calendar month.

The operator shall keep daily records on the throughput of the equipment and its cumulative total throughput for the calendar month.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D564]

- 6-4. The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 125 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the slop oil tank.

[Devices subject to this condition : D1042, D1046]

- 6-5. The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 120 Deg F.

To comply with this condition, the operator shall install and maintain a(n) measuring device to accurately indicate the temperature in the reactor.

The operator shall install and maintain a continuous temperature recorder to show or to ensure compliance with this condition.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[Devices subject to this condition : D309]

- 12-6. The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the flare gas. The operator shall also install and maintain a device to continuously record the parameter being measured.

[Devices subject to this condition : C626]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 12-7. The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the oxygen concentration at the exhaust.

[Devices subject to this condition : D1087]

- 12-8. The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the SCR catalyst bed.

[Devices subject to this condition : C1089]

- 12-9. The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the SCR catalyst bed.

[Devices subject to this condition : C1089]

- 12-11. The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the ammonia-to-emitted-NOx mole ratio at the SCR inlet. The emitted NOx is the mole concentration of NOx at the SCR inlet.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 5 percent. It shall be calibrated once a month.

[Devices subject to this condition : C1089]

- 12-12. The operator shall install and maintain a(n) continuous monitoring system to accurately indicate the energy input being supplied to the combustion chamber per RECLAIM requirements.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[Devices subject to this condition : D36, D60, D61, D69, D70, D169, D170, D277, D598, D743, D1087]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 22-3. The operator shall not use this equipment with materials having a true vapor pressure of 1.5 psia or greater under actual operating conditions.

[RULE 462, 5-14-1999]

[Devices subject to this condition : D1149]

- 23-2. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	J

[Devices subject to this condition : D601]

- 23-3. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

[Devices subject to this condition : D813]

- 23-7. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOX	District Rule	1109

[Devices subject to this condition : D36, D60, D61, D69, D598, D743]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 23-8. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOX	District Rule	1146

[Devices subject to this condition : D169]

- 23-9. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOX	District Rule	1109
SOX	40CFR60, SUBPART	J

[Devices subject to this condition : D70, D277, D1087]

- 23-10. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
NOX	District Rule	1146
SOX	40CFR60, SUBPART	J

[Devices subject to this condition : D170]

- 23-11. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	40CFR60, SUBPART	GGG

[Devices subject to this condition : D756, D1050, D1051, D1056, D1118, D1119, D1120, D1121, D1122, D1123, D1124, D1126]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

23-12. This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
ROG	District Rule	1173
ROG	District Rule	1176
ROG	40CFR60, SUBPART	GGG
ROG	40CFR60, SUBPART	QQQ

[Devices subject to this condition : D282, D309, D324, D907, D1031, D1032, D1033, D1034, D1035, D1036]

28-1. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to demonstrate compliance with the NOX and CO emission limits under District Rule 1146.

The test shall be conducted on or before December 1, 1993, and every year thereafter.

[Devices subject to this condition : D601]

28-2. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the oxygen concentration at the outlet.

The test shall be conducted to determine the total hydrocarbon emissions at the outlet.

The test shall be conducted to determine the NOX emissions at the outlet.

The test shall be conducted to determine the SOX emissions at the outlet.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted to determine the total PM emissions at the outlet.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to demonstrate compliance with Rule 1109.

The test shall be conducted within 90 days after initial startup.

[Devices subject to this condition : D761]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

28-3. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the oxygen concentration at the outlet.

The test shall be conducted to determine the total hydrocarbon emissions at the outlet.

The test shall be conducted to determine the NOX emissions at the outlet.

The test shall be conducted to determine the SOX emissions at the outlet.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted to determine the total PM emissions at the outlet.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted within 90 days after initial startup.

[Devices subject to this condition : D903]

28-4. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted for CARB certification purposes in accordance with Rule 462(e)(1)(D) and (e)(1)(E). Within 30 days after completing construction, a written request shall be submitted to CARB for certification. Within 180 days after completion of construction, the operator shall obtain CARB certification for the vapor recovery system.

[RULE 462, 5-14-1999]

[Devices subject to this condition : C1134, C1135]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

28-5. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once every three years.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

Source test shall be conducted when this equipment is operating at least 80 percent or greater of the permitted maximum rated capacity or at a level acceptable to the District.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to demonstrate compliance with the emission limit of 23 ppmv NO_x at 3 percent oxygen, dry basis.

The test shall be conducted to determine and report the mass emission rate in pounds per day for NO_x, SO_x, ROG, CO, Total PM and PM₁₀.

The test shall be conducted using AQMD approved methods and procedures. Source test protocol shall be submitted at least 60 days prior to the source test.

[Devices subject to this condition : D36, D69, D70, D169, D170, D277, D743]

28-6. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once every three years.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

Source test shall be conducted when this equipment is operating at least 80 percent or greater of the permitted maximum rated capacity or at a level acceptable to the District.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to demonstrate compliance with the emission limit of 35 ppmv NO_x at 3 percent oxygen, dry basis.

The test shall be conducted to determine and report the mass emission rate in pounds per day for NO_x, SO_x, ROG, CO, Total PM and PM₁₀.

The test shall be conducted using AQMD approved methods and procedures. Source test protocol shall be submitted at least 60 days prior to the source test.

[Devices subject to this condition : D60, D61]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

28-7. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once every three years.

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

Source test shall be conducted when this equipment is operating at least 80 percent or greater of the permitted maximum rated capacity or at a level acceptable to the District.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to demonstrate compliance with the emission limit of 45 ppmv NOx at 3 percent oxygen, dry basis.

The test shall be conducted to determine and report the mass emission rate in pounds per day for NOx, SOx, ROG, CO, Total PM and PM10.

The test shall be conducted using AQMD approved methods and procedures. Source test protocol shall be submitted at least 60 days prior to the source test.

[Devices subject to this condition : D598]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

28-8. The operator shall conduct source test(s) in accordance with the following specifications:

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted at least once per year after the initial CARB certification test.

The test shall be conducted to determine the VOC emissions using EPA Method 25A, 25B, or District Method 501.1.

The test shall be conducted when this equipment is operating at least 80 percent of maximum permitted loading rate for gasoline.

The test shall be conducted for at least four complete adsorption cycles.

The test shall be conducted to determine the total VOC concentration in percent by volume and the mass rate at the inlet and exhaust of the carbon adsorbers.

The test shall be conducted to determine the concentration and mass rate at the inlet and exhaust of the carbon adsorbers of toxic air contaminants benzene, toluene and xylene.

The test shall be conducted to determine the accuracy of the continuous emission monitoring system relative to the source test results.

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the District engineer no later than 45 days before the proposed test date, and shall be approved by the District before the test commences. The protocol shall include the proposed operating conditions of the equipment during the test, the identity of the testing lab, a statement from the lab certifying that it meets the criteria of R304, and a description of all sampling and analytical procedures to be used.

The test shall be conducted to determine the exhaust flow rate and the gasoline loading rate.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C1134, C1135]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

28-9. The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least annually.

The test shall be conducted within 90 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted to determine the NOX emissions at the outlet.

The test shall be conducted to determine the ROG emissions at the outlet.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted to determine the PM10 emissions at the outlet.

The test shall be conducted to determine the total PM emissions at the outlet.

The test shall be conducted to determine the oxygen concentration at the outlet.

The test shall be conducted to determine the NH3 emissions at the outlet.

Source test shall be conducted when this equipment is operating at least 80 percent or greater of the permitted maximum rated capacity or at a level acceptable to the District.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to demonstrate compliance with the emission limit of 5 ppmv NOx and 9 ppmv NH3, both at 3 percent oxygen, dry basis, three-hour average for NOx and one-hour average for NH3.

The test shall be conducted to determine and report the mass emission rate in pounds per day for NOx, ROG, CO, Total PM and PM10.

The test shall be conducted after AQMD approval of source test protocol submitted in accordance with Section E - Administrative Conditions.

The test shall be conducted and test report submitted to the District in accordance with Section E - Administrative Conditions.

The test shall be conducted only at the outlet of the APC device serving the equipment.

The test shall be conducted to determine NOx emissions during initial source test only.

[Devices subject to this condition : D1087]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 40-1. The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

[Devices subject to this condition : D36, D60, D61, D69, D70, D169, D170, D277, D598, D743, D761, D903, D1087]

- 40-2. The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

Source test results shall also include the gasoline loading rate, the exhaust flow rate, the temperature, pressure, hydrocarbon concentration of incoming vapor to the control, and any other variables used to determine the proper alarm setting, and VOC concentration by volume which will be the emission limit set forth in the Permit to Operate under which the test was conducted.

Emission data shall be expressed in terms of Lbs/Gallon.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 462, 5-14-1999]

[Devices subject to this condition : C1134, C1135]

- 57-4. The operator shall vent this equipment to an APC system with a valid permit issued by the Executive Officer whenever the equipment is in operation.

[Devices subject to this condition : D1087]

- 57-5. The operator shall vent this equipment to the carbon bed control system (Devices C1134 and C1135) whenever gasoline, diesel, Jet-A, or switch loading operations occur.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D1129, D1130, D1131, D1132, D1139, D1140, D1141, D1142, D1143, D1144, D1145, D1146]



**FACILITY PERMIT TO OPERATE
CENCO REFINING COMPANY**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

63-1. The operator shall limit emissions from this equipment as follows

CONTAMINANT	EMISSIONS LIMIT
NOX	Less than or equal to 28 LBS IN ANY ONE DAY
SOX	Less than or equal to 31 LBS IN ANY ONE DAY
CO	Less than or equal to 147 LBS IN ANY ONE DAY
PM	Less than or equal to 24 LBS IN ANY ONE DAY
ROG	Less than or equal to 16 LBS IN ANY ONE DAY

[Devices subject to this condition : D761]

63-2. The operator shall limit emissions from this equipment as follows

CONTAMINANT	EMISSIONS LIMIT
ROG	Less than or equal to 4 LBS IN ANY ONE DAY
CO	Less than or equal to 37 LBS IN ANY ONE DAY
PM10	Less than or equal to 9 LBS IN ANY ONE DAY
NOX	Less than or equal to 18 LBS IN ANY ONE DAY
SOX	Less than or equal to 7 LBS IN ANY ONE DAY

[Devices subject to this condition : D903]

63-3. The operator shall limit emissions from this equipment as follows

CONTAMINANT	EMISSIONS LIMIT
SOX	Less than or equal to 3900 LBS IN ANY ONE MONTH

[Devices subject to this condition : C1076]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 63-4. The operator shall limit emissions from this equipment as follows

CONTAMINANT	EMISSIONS LIMIT
ROG	Less than or equal to 12 LBS IN ANY ONE DAY
PM10	Less than or equal to 12 LBS IN ANY ONE DAY
CO	Less than or equal to 12 LBS IN ANY ONE DAY

The operator shall calculate the emission limit(s) compliance to the above based on at least three one-hour source tests using AQMD-approved methods for emission rates and fuel usage as required by RECLAIM during the day of the test (0000-2400 hours).

[Devices subject to this condition : D1087]

- 67-7. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Daily loading rates, and records of the leak inspections. Records shall be kept for a minimum of 2 years and be made available to AQMD personnel upon request

[RULE 462, 5-14-1999]

[Devices subject to this condition : D1129, D1130, D1131, D1132, D1139, D1140, D1141, D1142, D1143, D1144, D1145, D1146]

- 67-8. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Daily loading rates

CEMS data, including, but not limited to, the strip chart, calibration log, and troubleshooting log

A log documenting the date and time of CEMS alarms, and date, time and type of corrective action taken

[RULE 462, 5-14-1999]

[Devices subject to this condition : C1134, C1135]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

67-9. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Ammonia to NOx injection ratio

NOx (as NO2) and NH3 emissions in ppmv @ 3 percent oxygen, dry basis, one-hour ave.

Duration of StartUp and Shutdown

Source Test Data on ROG, PM10 and CO Emissions.

Records shall be kept and maintained for at least two years, and shall be made available to the Executive Officer or his authorized representative upon request.

Calibration data on the NH3 to NOx injection ratio continuous monitoring system

[Devices subject to this condition : C1089]

67-10. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Firing Rate

NOx (as NO2) emission in ppmv @ 3 percent oxygen, dry basis

Records shall be kept and maintained for at least two years, and shall be made available to the Executive Officer or his authorized representative upon request.

[Devices subject to this condition : D36, D60, D61, D69, D70, D169, D170, D277, D598, D743]

67-11. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Vapor pressure and daily loading rates for each product loaded. Records shall be kept for a minimum of 2 years and be made available to District personnel upon request.

[RULE 462, 5-14-1999]

[Devices subject to this condition : D1149]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

67-12. The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Firing Rate

NOx (as NO₂) and NH₃ emission in ppmv @ 3 percent oxygen, dry basis, 3-hour ave. for NOx and 1-hour ave. for NH₃.

Duration of StartUp and Shutdown

Source Test Data on ROG, PM₁₀ and CO Emissions.

Records shall be kept and maintained for at least two years, and shall be made available to the Executive Officer or his authorized representative upon request.

[Devices subject to this condition : D1087]

71-2. The operator shall only use this equipment to handle degassed vapors from one serviced tank at a time.

[Devices subject to this condition : D620, C732]

71-4. The operator shall only use water to purge this equipment during change out of the Sulfatreat absorbent. Spent absorbent shall be kept in closed container to reduce emissions of particulate matter.

[Devices subject to this condition : C1078, C1079]

71-5. The operator shall not discharge directly or indirectly any VOC or sulfur compounds from this equipment to the flare except during change out of absorbent or emergencies regulated under Rule 118. Connection to the flare by any control valve is a violation of this permit condition.

[Devices subject to this condition : C1078, C1079, C1080, C1081]

71-6. The operator shall not route tail gas from any Claus sulfur recovery unit to this equipment for incineration except during emergency as allowed under AQMD Rule 118. The operator shall demonstrate compliance with this permit condition by maintaining a closed valve with car seal at all inlets of the flare header connecting the Claus Sulfur Plant to the flare.

[Devices subject to this condition : C626]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 71-7. The operator shall only use natural gas fuel in this equipment during operation.
[Devices subject to this condition : D1087]
- 71-8. The operator shall only inject aqueous ammonia into this equipment during operation.
[Devices subject to this condition : C1089]
- 71-9. The operator shall only use this equipment to recover slop oils from the crude units (Device nos. D15 and D41) and API oil/water separator (device no. D499).
[Devices subject to this condition : D1042, D1046]
- 71-10. The operator shall only operate this equipment if it is provided with a pressure relief valve set at 200 psig.
[Devices subject to this condition : D1041]
- 71-11. The operator shall not deliver, handle, receive or store in the facility or this equipment for use in the alkylation process hydrofluoric acid catalyst with an additive content of less than 4 percent by weight. Records shall be kept to show compliance with this condition.
[Devices subject to this condition : D282]
- 71-12. The operator shall not load this equipment using modified hydrofluoric (HF) acid catalyst containing more than 82 percent by weight HF acid. This condition shall not apply during shutdown of the equipment, which is allowed for a duration up to 7 days.
[Devices subject to this condition : D309]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 71-13. The operator shall only operate this equipment if it can be demonstrated to the Executive Officer that the facility holds sufficient RTCs to offset emission increase for one year operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the first compliance year of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

[Devices subject to this condition : D1087]

- 71-14. The operator shall only operate this equipment if GC-1 is not operating, and the maximum duration for which this compressor shall be used is 45 days. Also, the District shall be notified whenever this compressor is brought on line.

[Devices subject to this condition : D905]

- 71-15. The operator shall only operate this equipment if it is done under a closed system and with a vent connection to a vapor recovery system.

[Devices subject to this condition : D1041]

- 82-1. The operator shall install and maintain a CEMS to measure the following parameters:

SOX concentration in ppmv

Concentrations shall be corrected to zero percent excess air on a dry basis.

The CEMS will convert the actual SOX concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and maintained to monitor and record the parameters to demonstrate compliance with the 3900 lbs monthly emission (PSD) limit and the 100 ppmv concentration (BACT) limit.

[Devices subject to this condition : C1076]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION II: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 82-2. The operator shall install and maintain a CEMS to measure the following parameters:

CO concentration in ppmv

Concentrations shall be corrected to 3 percent oxygen on a dry basis.

The CEMS will convert the actual CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed prior to the operation of the equipment. It shall be certified by the District within one year from the date of its operation.

[Devices subject to this condition : D1087]

- 90-6. The operator shall continuously monitor the H₂S concentration in the fuel gas at the outlet of this equipment according to the following specifications:

The operator shall calibrate the instrument used to monitor the parameter in ppmv dry.

The operator shall also install and maintain a device to continuously record the parameter being monitored.

[Devices subject to this condition : D1084]

- 99-1. The 5 PPM NO_x emission limit(s) shall not apply during refractory dryout, startup or shutdown.

[Devices subject to this condition : C1089]

- 99-2. The 9 PPM NH₃ emission limit(s) shall not apply during refractory dryout, startup or shutdown.

[Devices subject to this condition : C1089]

- 116-1. The operator shall limit the H₂S concentration to less than 160 ppmv dry basis in the fuel gas at the outlet of this equipment in order to comply with 40CFR60 Subpart J whenever the fuel gas is burned in any fuel gas combustion device subject to this standard.

[Devices subject to this condition : D1084]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

163-1. The operator shall not use fuel gas containing the following:

Total Sulfur Content, as H₂S, shall not exceed 300 ppm by volume.

[Devices subject to this condition : D70, D170, D277]

171-1. The operator shall provide to the District the following items:

Final drawings and/or specifications of the equipment installed / constructed shall be submitted to the AQMD within 60 days prior to the operation of the equipment

[Devices subject to this condition : D1087]

171-2. The operator shall provide to the District the following items:

Final drawings and/or specifications of the equipment installed / constructed, including details on the catalyst used, and the ammonia injection grid shall be submitted to the AQMD within 60 days prior to the operation of the equipment

[Devices subject to this condition : C1089]

171-3. The operator shall provide to the District the following items:

The material balance of the diesel hydrodesulfurization (DHT) unit. This document shall be submitted no later than 60 days after initial startup of this equipment

[Devices subject to this condition : D1056, D1126]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 179-1. For the purpose of the following condition number(s), component(s) shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by rule 1173..

Condition Number 204-1
Condition Number 204-3
Condition Number 204-4
Condition Number 204-2
Condition Number 204-5

[Devices subject to this condition : D813]

- 182-2. The operator shall test this equipment in accordance with the following specifications:

The operator shall submit a detail description of the test methods/procedures to the District at least 90 days prior to the initial testing. The initial and annual tests shall be conducted according to the approved test plan or any subsequently approved revisions.

The District shall be notified of the date and time of the test at least 15 days prior to the test. Report of the test and operating conditions of the sulfur recovery unit recorded during the test shall be made available to the District upon request.

During the test, the equipment shall be operated at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

The test shall be conducted to determine the sulfur conversion efficiency of the Claus Sulfur Recovery Unit to demonstrate compliance with the BACT requirements of 95 percent conversion efficiency.

The test shall be conducted at least once every three years. The initial test shall be conducted within 180 days from startup of the equipment.

[Devices subject to this condition : D1060, D1062]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

182-3. The operator shall test this equipment in accordance with the following specifications:

The operator shall submit a test protocol to the District at least 90 days prior to the initial testing.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the total sulfur contents in the refinery gas at the inlet and outlet, and the control efficiency of the air pollution control system.

The test shall be conducted no later than 180 days after startup.

Test results shall be submitted to the District no later than 60 days after the test.

[Devices subject to this condition : C1078, C1079, C1080, C1081]

193-1. The operator shall install this equipment according to the following specifications:

An Oxygen analyzer shall be installed to measure excess Oxygen in the flue gas at its convective section or Exhaust gas. The excess Oxygen thus measured shall be at a minimum of one percent, dry basis, except at the startup, shutdown or process upsets.

[Devices subject to this condition : C763]

193-2. The operator shall upon completion of construction, operate and maintain this equipment according to the following specifications:

This equipment shall not be subject to the 100 ppmv SOx emission limit during startup of the sulfur recovery unit.

The operator shall limit the duration of startup to no more than 24 hours in any one year.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

[Devices subject to this condition : C1076]

195-1. The 100 PPMV SOX emission limit(s) are averaged over 3 hours and corrected to zero percent excess air dry.

[Devices subject to this condition : C1076]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

204-1. The operator shall install the valves according to the following specifications:

For all new valves in VOC service except those specifically exempted by Rule 1173, Bellow-sealed valves shall be used for 2-inch and smaller service except in the following applications:

Heavy Liquid Service.

Control Valves.

Instrument Piping/Tubing.

Applications requiring torsional valves stem bottom.

Retrofits with space limitations.

Applications where valve failure could pose a safety hazard (e.g. drain valves with valve stem in horizontal position)

[Devices subject to this condition : D813]

204-2. The operator shall inspect the components according to the following specifications:

All new components in VOC service except valves and flanges shall be inspected quarterly using EPA reference method 21

[Devices subject to this condition : D813]

204-3. The operator shall inspect the valves and flanges according to the following specifications:

All new valves and flanges in VOC service except those specifically exempted by Rule 1173, shall be inspected monthly using EPA method 21. If 98 percent or greater of the new valve and flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator shall revert to a quarterly inspection program with the approval of the executive officer. This condition shall not apply to bellow sealed valves

[Devices subject to this condition : D813]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

204-4. The operator shall tag the components according to the following specifications:

All new components in VOC service as defined by Rule 1173, except those exempted by Rule 1173, shall be identified from other components by listings or tags. All major components shall have distinct tag numbers, and shall be noted in the records.

[Devices subject to this condition : D813]

204-5. The operator shall repair the components according to the following specifications:

For all new components in VOC service except pressure relief devices for which a leak in excess of 200 PPM shall be repaired within 5 days of detection, a leak greater than 500 PPM but less than 1000 PPM measured as methane above background as measured by using EPA Method 21 shall be repaired within 14 days of detection.

[Devices subject to this condition : D813]

204-6. The operator shall maintain the valves according to the following specifications:

All valves in H2S service shall be bellows seal or leakless type.

Valves in H2S service means any valve except control valve, instrument piping/tubing, applications requiring torsional valve stem motion, and applications where valve failure could pose a safety hazard (e.g. drain valves with valve stem in horizontal position), which are in contact with any fluid containing H2S in excess of 5 percent by weight as determined by test method or engineering judgement approved by the District.

Any valve in H2S service shall be marked in such a manner that it can be distinguished readily from other components.

[Devices subject to this condition : D1060, D1062, D1063, D1064, D1065, D1066, D1067, C1068, C1069, C1071, C1072, C1073, D1082]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 232-1. The operator shall install and maintain a continuous emission monitoring device to accurately indicate the VOC concentration at the outlet of the carbon beds. The monitoring system shall be in full use at all times. The alarm shall be set to activate at a VOC concentration of 0.368 volume percent as propane. The AQMD may review the test results and operational data to determine if the alarm setting should be changed. If a more appropriate alarm setting is determined from the data, Cenco shall obtain written approval from the AQMD before changing the setting.

The operator shall also install and maintain a device to continuously record the emissions being monitored.

The emission monitoring device shall include audio and visual alarms.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 462, 5-14-1999]

[Devices subject to this condition : C1134, C1135]

- 232-2. The operator shall install and maintain a continuous emission monitoring device to accurately indicate the total sulfur concentration in the fuel gas at the outlet. The operator shall also install and maintain a device to continuously record the parameter being measured.

[Devices subject to this condition : D1083, D1084]

- 246-1. The operator shall notify the District a minimum of 5 days prior to any degassing operation to be conducted at this location. This notification shall include, but not limited to the following items:

Item 1: Date and time of the degassing operation

Item 2: Notification shall be made by calling the Stationary Source Compliance Division

[Devices subject to this condition : D620, C732]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 313-1. This device is classified as a non-operated major SO_x and NO_x source as defined under Rules 2011 and 2012 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

- (a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and
- (b) Remove all burners

Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

[Devices subject to this condition : D761]

- 313-2. This device is classified as a non-operated major SO_x source as defined under Rule 2011 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

- (a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and
- (b) Remove all burners

Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

[Devices subject to this condition : D903]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 313-3. This device is classified as a non-operated major SO_x and NO_x source as defined under Rules 2011 and 2012 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

- (a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and
 - (b) Remove a section of the process feed line(s) and place a blind flange on both ends of the process feed line(s)
- Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

[Devices subject to this condition : D601, D761]

- 313-4. This device is classified as a non-operated major SO_x source as defined under Rule 2011 and shall not be operated unless the Facility Permit holder provides written notification to the Executive Officer 30 days prior to starting operation. In order to maintain the non-operational classification, the Facility Permit holder shall:

- (a) Remove a section of the fuel feed line(s) to the device and place a blind flange on both ends of the fuel feed line(s); and
 - (b) Remove a section of the process feed line(s) and place a blind flange on both ends of the process feed line(s)
- Removal of parts or components solely to qualify the device for non-operated classification pursuant to this condition, or replacement of the same removed parts or components resulting in the device no longer being classified as non-operated shall not be deemed to affect the potential to emit within the meanings of Rule 2005, Regulation XIII and Regulation XXX.

[Devices subject to this condition : D903]

- 315-1. Once this device is operated, it shall no longer be classified as non-operational. This device shall also meet the monitoring requirements of Rules 2011 and 2012, subparagraph (c)(2)(A) or (c)(2)(B) no later than 30 calendar days after the start of operation except as provided in Rule 2011, paragraph (c)(11) and Rule 2012, paragraph (c)(10).

[Devices subject to this condition : D601, D761]



FACILITY PERMIT TO OPERATE CENCO REFINING COMPANY

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

- 315-2. Once this device is operated, it shall no longer be classified as non-operational. This device shall also meet the monitoring requirements of Rule 2011, subparagraph (c)(2)(A) or (c)(2)(B) no later than 30 calendar days after the start of operation except as provided in Rule 2011, paragraph (c)(11).

[Devices subject to this condition : D903]

- 336-3. The operator shall vent the vent gases from this equipment as follows:

All flash gas from the flash drum shall be directed to the Vacuum Unit Off Gas Compressor, Device No. D930. The operator shall disconnect and blind-flange the fuel gas line between Device No. D930 and the Vacuum Heater, V-H-1, Device No. D69.

[Devices subject to this condition : D1082]



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SECTION I: COMPLIANCE PLANS AND SCHEDULES

This section lists all compliance plans approved by AQMD for the purpose of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans, with the following exceptions:

- a. The operator does not have to comply with NO_x or SO_x emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) which become effective after December 31, 1993.
- b. The operator does not have to comply with NO_x or SO_x emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) after the facility has received final certification of all monitoring and reporting requirements specified in Section F and Section G.

List of approved compliance plans:

Application	Rule
348812	1109



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SECTION J: AIR TOXICS

NOT APPLICABLE



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APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219

1. INTERNAL COMBUSTION ENGINES, EMERGENCY FIRE WATER PUMP, DIESEL
2. INTERNAL COMBUSTION ENGINES, BACKUP, DIESEL